

2M Series



SMALLER, LIGHTER-WEIGHT ALTERNATIVE FOR D38999 PERFORMANCE

Amphenol 2M micro-miniature connectors are a small, light-weight option for mil-spec performance that can withstand harsh environments. They are quick-mating and a variety of styles and options are available. For full product details, please see our specifications below.

- Intermateable with Glenair® Mighty Mouse

APPLICATIONS

- Headsets
- Tactical equipment
- Airframes
- Avionics boxes
- Handheld equipment



	2M801	2M803	2M804	2M805
Type	Dual-Start ACME Thread	Bayonet	Push-Pull	Tri-Start ACME Thread
# of Contacts	1 to 130	1 to 55	1 to 85	1 to 130
Coupling Type	Threaded Coupling 1-1/2 turns to fully mate	1/4 Turn Lock Bayonet	Push-Pull Quick-Disconnect	Tri-Start Thread Ratched
Sealing	MIL-STD-810 Method 512 1 Meter for 1 Hour	Splashproof	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 1 Meter for 1 Hour
EMI-Shielding	Very Good	Fair	Excellent	Excellent
Mating Cycles	2000 Cycles	250 Cycles Aluminum; 500 Cycles Stainless Steel	2000 Cycles	500 Cycles
Electrical Performance	Size 12: 23A, 1800 VAC Size 16: 13A, 1800 VAC Size 20: 7.5A, 750 VAC Size 23: 5A, 500 VAC	Size 12: 23A, 1800 VAC Size 16: 13A, 1800 VAC Size 20: 7.5A, 750 VAC Size 23: 5A, 500 VAC	Size 12: 23A, 1800 VAC Size 16: 13A, 1800 VAC Size 20: 7.5A, 750 VAC Size 23: 5A, 500 VAC	Size 12: 23A, 1800 VAC Size 16: 13A, 1800 VAC Size 20: 7.5A, 750 VAC Size 23: 5A, 500 VAC
Shock & Vibration	43.9 g's Random Vibration, Sine Vibration 60 g; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	43.9 g's Random Vibration, Sine Vibration 60 g; 300 g's Shock

MATERIALS AND FINISHES

Shell	Aluminum alloy 6061 T6, stainless steel passivated
Insert	Polyphenylene sulfide (PPS)
Contact Retention Clip	Beryllium copper, heat-treated, unplated
Contacts	50u" gold-plated copper alloy
Socket Contact Hood	Passivated stainless steel
Grommet & Seals	Fluorosilicone rubber
Adhesives	Epoxy film and RTV's
Potting Compound for PCB & Solder Versions	High-strength epoxy

ELECTRICAL DATA

Contact Sizes 23, 20, 20HD, 16, & 12 AWG

Operating Voltage & Test Voltage (Mated Condition)

CONTACT SIZE	23	20	20HD	16	12
Sea Level VAC	500	1800	750	1800	1800
40,000 Feet VAC	100	325	150	1000	1000

Current Rating (Max)

CONTACT SIZE	AMPERES
23	5
20	7.5
16	13
12	23

Contact Resistance

WIRE SIZE	TEST CURRENT	MAX VOLTAGE DROP
12	23	42
14	17	40
16	13	49
20	7.5	55
22	5	73
24	3	45
26	2	52
28	1.5	54

Insulation Resistance 5,000 megaohms minimum

MECHANICAL

Operating Temperature	-85°F to +302°F (-65°C to +150°C) aluminium -85°F to +392°F (-65°C to +200°C) stainless steel
Sealing	1 meter for 1 hour (2M803 splashproof)

Insulation Strip Length

CONTACT SIZE	STRIP LENGTH
23	0.150 (3.81)
20	0.188 (2.54)
20HD	0.150 (3.81)
16	0.188 (2.54)
12	0.188 (2.54)

Mating Life	2000 cycles; 2M803 aluminum 250 cycles
Salt Spray	Plating C & M: 48-hours Plating MT, NF, ZM, ZN, ZNU, UCR: 500-hours
Fungus	Fungus resistant insert
Random Vibration	2M801 & 2M805: 43.9g ; 2M803 & 2M804: 37g
Gunfire Vibration	No discontinuity greater than 1 microseconds; no cracking, breaking or loosening of parts, plug shall not disengage from receptacle. Connectors meet electrical requirements after vibration test.
Shock	300 G, half-sine, 3ms, 3 axes
EMI-Shielding Effectiveness	55 dB min from 100 MHz to 1000 MHz
Contact Type	Crimp, solder or printed circuit
Number of Contacts	1 to 130

Contact Retention

CONTACT SIZE	MIN. POUNDS	MIN. NEWTONS
23	10	45
20	15	67
20HD	10	45
16	25	111
12	25	111

Contact Separation Force

CONTACT SIZE	MIN. OUNCES	MIN. NEWTONS
23	0.5	0.14
20	0.7	0.19
20HD	0.7	0.19
16	2.0	0.56
12	3.0	0.83

Coupling Torque

SHELL SIZE		INCH / POUNDS
2M801	2M805	
5, 6, 7	8,9	8
8, 9	10, 11	9
10	12	12
12, 13	15	16
14, 15	18	28
16, 17	19	24
21	-	32
-	23	36

Polarization	Dual-Start ACME Thread coupling, 3 keyways with optional keyway rotations, note insert remained fixed.
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LAYOUTS BY NUMBER OF CONTACTS

Front face of pin inserts shown. (Sockets mirror image)

CONTACTS	1		2		
2M801	6-1	7-1	8-2	10-2	13-2
2M803	6-1	7-1	8-2	10-2	12-2
2M804	6-1	7-1	8-2	10-2	12-2
2M805	8-1	9-1	10-2	12-2	15-2
# OF CONTACTS & SIZE	1#16	1#12	2#16	2#12	2#12
DWV VOLTAGE (VAC)	1800	1800	1800	1800	1800

CONTACTS	3			4	
2M801	5-3	6-23	13-3	6-4	9-4
2M803	5-3	6-23	12-3	6-4	9-4
2M804	5-3	6-23	12-3	6-4	9-4
2M805	NA	8-23	15-3	8-4	11-4
# OF CONTACTS & SIZE	3#23	3#20HD	3#12	4#23	4#16
DWV VOLTAGE (VAC)	500	750	1800	500	1800

CONTACTS	5			6	
2M801	7-25	10-5	16-5	6-6	8-200
2M803	7-25	10-5	14-5	6-6	8-200
2M804	7-25	10-5	14-5	6-6	8-200
2M805	9-25	12-5	18-5	8-6	10-200
# OF CONTACTS & SIZE	5#20HD	5#16	5#12	6#23	4#23, 2#20
DWV VOLTAGE (VAC)	750	1800	1800	500	1000 (#20), 500 (#23)

CONTACTS	6 (CONT.)		7		
2M801	9-200	10-201	6-7	13-7	17-7
2M803	9-200	10-201	6-7	12-7	NA
2M804	9-200	10-201	6-7	12-7	NA
2M805	11-200	12-201	8-7	15-7	19-7
# OF CONTACTS & SIZE	4#23, 2#16	4#23, 2#12	7#23	7#16	7#12
DWV VOLTAGE (VAC)	1800 (#16), 500 (#23)	1800 (#12), 500 (#23)	500	1800	1800

CONTACTS	8			10		
2M801	8-28	13-200	7-10	9-201	9-210	10-202
2M803	8-28	12-200	7-10	9-201	9-210	10-202
2M804	8-28	12-200	7-10	9-201	9-210	10-202
2M805	10-28	15-200	9-10	11-201	11-210	12-202
# OF CONTACTS & SIZE	8#20HD	6#23, 2#12	10#23	8#23, 2#20	10#20HD	8#23, 2#16
DWV VOLTAGE (VAC)	750	1800 (#12), 500 (#23)	500	1000 (#700), 500 (#23)	750	1800 (#16), 500 (#23)

LAYOUTS BY NUMBER OF CONTACTS

Front face of pin inserts shown. (Sockets mirror image)

CONTACTS	12			13	
2M801	16-12	21-12	13-201	8-13	10-200
2M803	14-12	NA	12-201	8-13	10-200
2M804	14-12	NA	12-201	8-13	10-200
2M805	18-12	23-12	15-201	10-13	12-200
# OF CONTACTS & SIZE	12#16	12#12	10#23, 2#12	13#23	12#23, 1#12
DWV VOLTAGE (VAC)	1800	1800	1800(#12), 500(#23)	500	1800(#12), 500(#23)


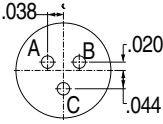
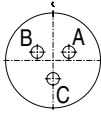

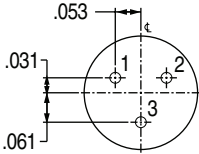
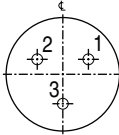

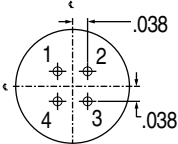
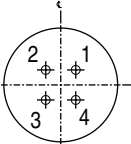

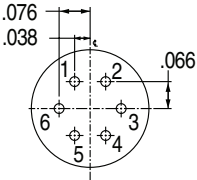
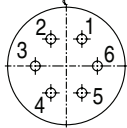

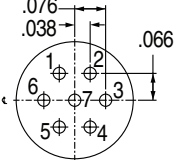
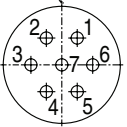
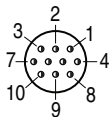
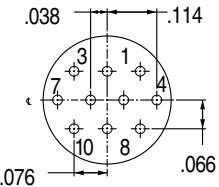
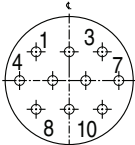
CONTACTS	14	19	20	22	26
2M801	17-14	9-19	13-220	21-22	10-26
2M803	NA	9-19	12-220	NA	10-26
2M804	NA	9-19	12-220	NA	10-26
2M805	19-14	11-19	15-220	23-22	12-26
# OF CONTACTS & SIZE	14#16	19#23	20#20HD	22#16	26#23
DWV VOLTAGE (VAC)	1800	500	750	1800	500

CONTACTS	35	37	41	55	69
2M801	16-235	13-37	17-241	16-55	21-269
2M803	14-235	12-37	NA	14-55	NA
2M804	14-235	12-37	NA	14-55	NA
2M805	18-235	15-37	19-241	18-55	23-269
# OF CONTACTS & SIZE	35#20HD	37#23	41#20HD	55#23	69#20HD
DWV VOLTAGE (VAC)	750	500	750	500	750

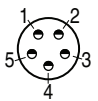
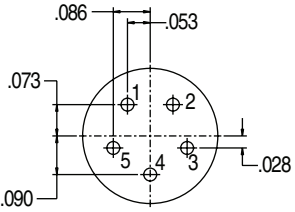
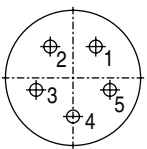
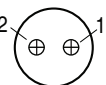
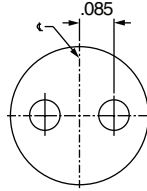
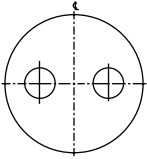
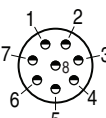
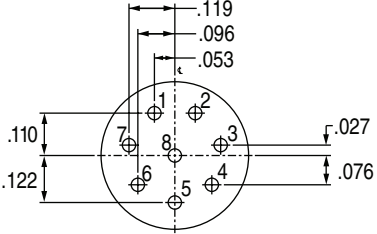
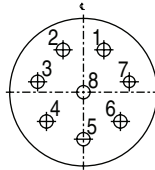
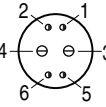
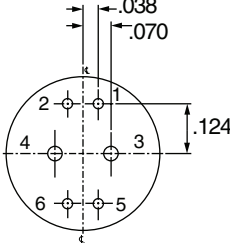
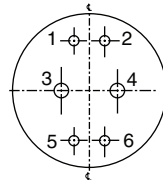
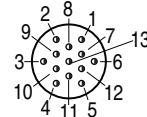
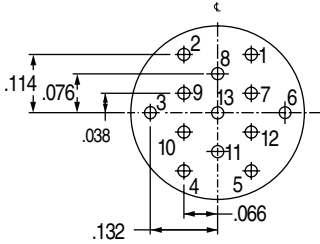
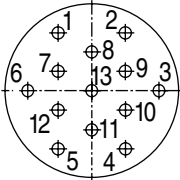

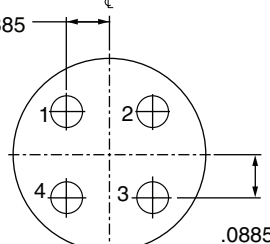
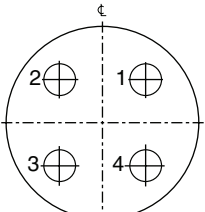
CONTACTS	85	130
2M801	17-85	21-130
2M803	NA	NA
2M804	15-85	NA
2M805	19-85	23-130
# OF CONTACTS & SIZE	85#23	130#23
DWV VOLTAGE (VAC)	500	500

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

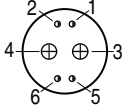
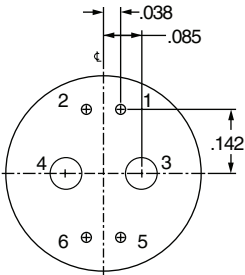
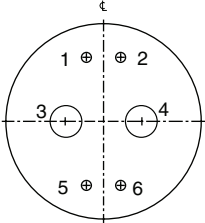
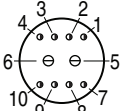
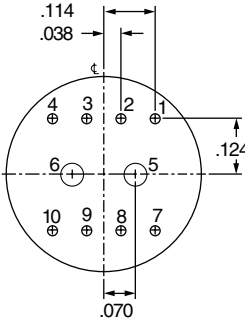
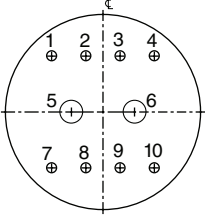
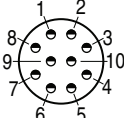
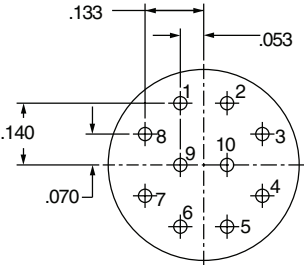
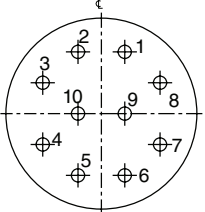
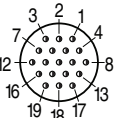
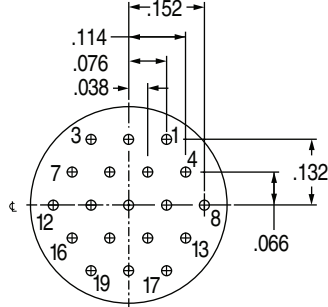
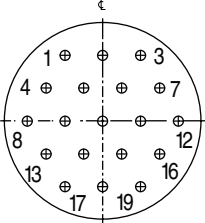

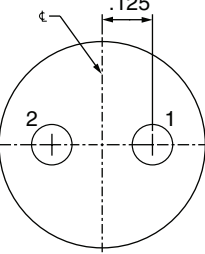
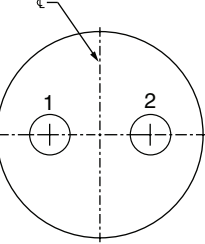
Insert Arrangement	Pin Connector	Socket Connector
 <p>5-3 (3) #23 Contacts .022 Max. Dia Tail</p>		
 <p>6-23, 8-23 (3) #20HD Contacts .023 Max. Dia. Tail</p>		
 <p>6-4, 8-4 (4) #23 Contacts .022 Max. Dia Tail</p>		
 <p>6-6, 8-6 (6) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>6-7, 8-7 (7) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>7-10, 9-10 (10) #23 Contacts .022 Max. Dia. Tail</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

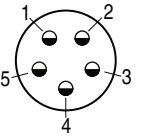
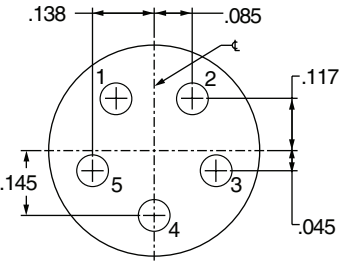
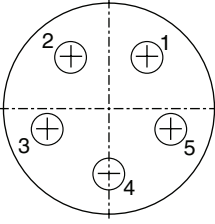
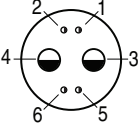
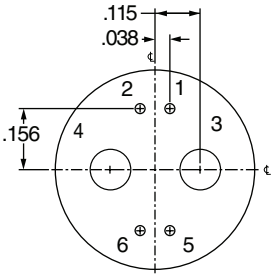
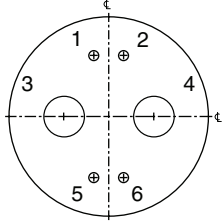
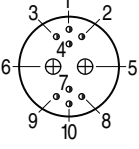
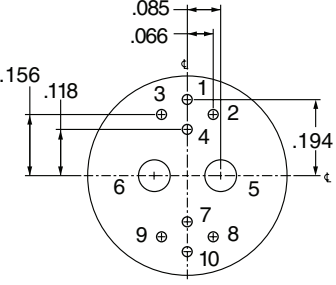
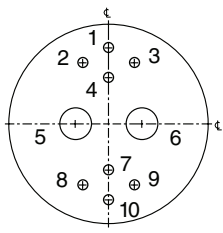
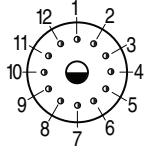
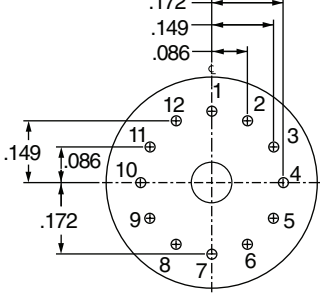
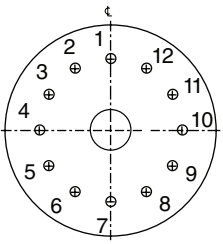
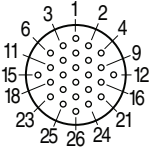
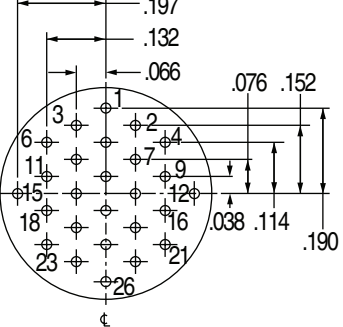
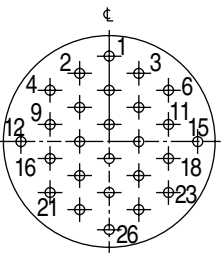
Insert Arrangement	Pin Connector	Socket Connector
 <p>7-25, 9-25 (5) #20HD Contacts .028 Max. Dia Tall</p>		
 <p>8-2, 10-2 (2) #16 Contacts</p>		
 <p>8-28, 10-28 (8) #20HD Contacts</p>		
 <p>8-200, 10-200 (2) #20 Contacts (4) #23 Contacts</p>		
 <p>8-13, 10-13 (13) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>9-4, 11-4 (4) #16 Contacts</p>		

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

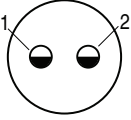
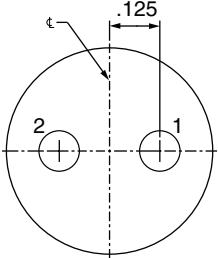
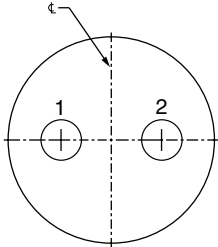
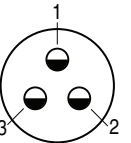
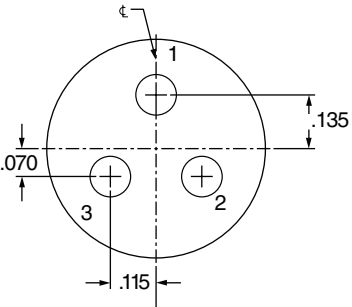
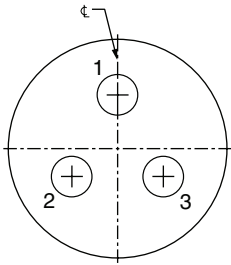
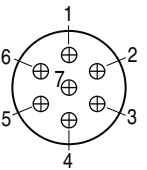
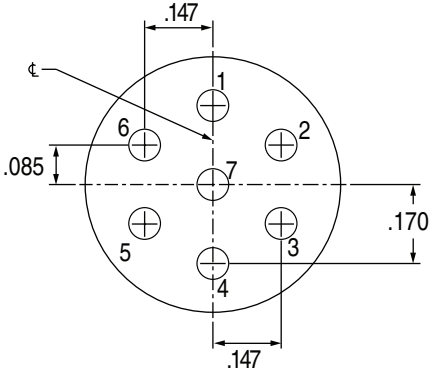
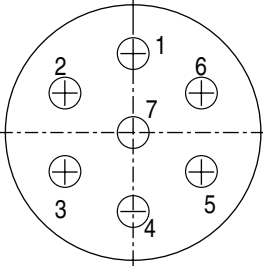
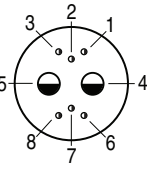
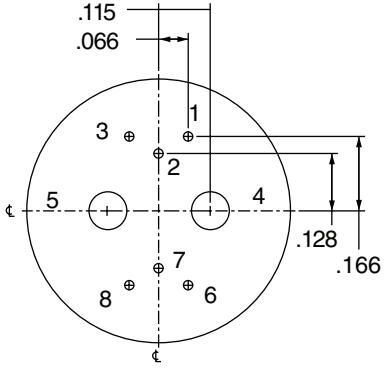
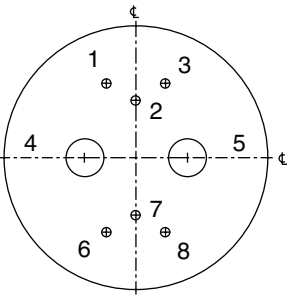
Insert Arrangement	Pin Connector	Socket Connector
 <p>9-200, 11-200 (4) #23 Contacts (2) #16 Contacts</p>		
 <p>9-201, 11-201 (2) #20 Contacts (8) #23 Contacts</p>		
 <p>9-210, 11-210 (10) #20HD Contacts</p>		
 <p>9-19, 11-19 (19) #20 Contacts .022 Max. Dia Tail</p>		
 <p>10-2, 12-2 (2) #12 Contacts</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

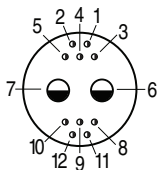
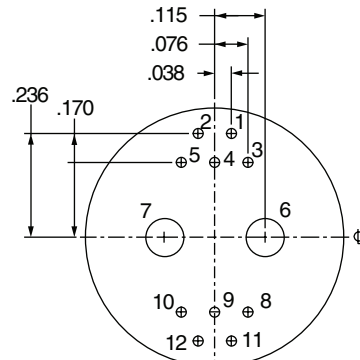
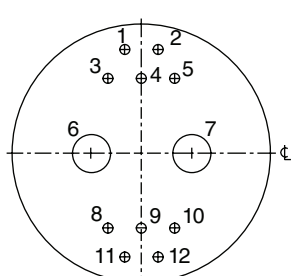
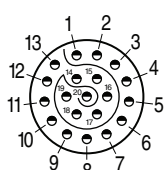
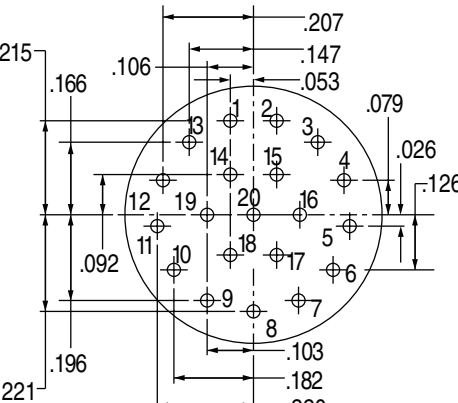
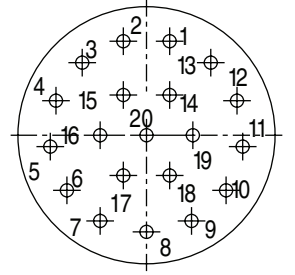
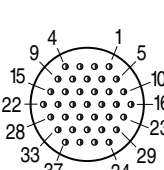
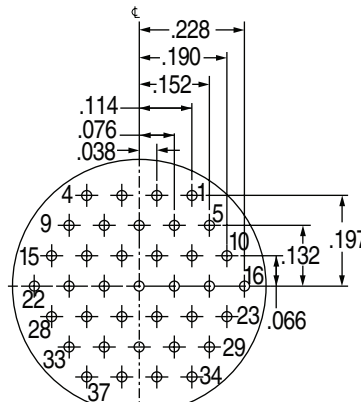
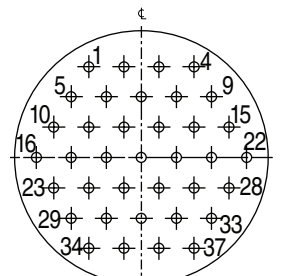
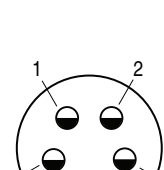
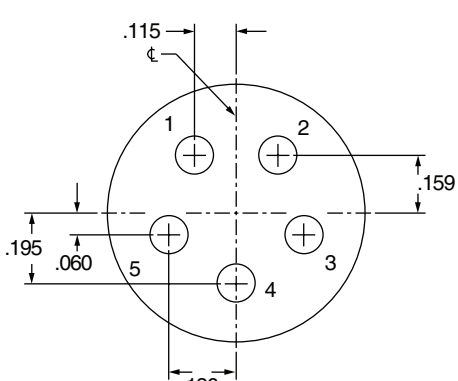
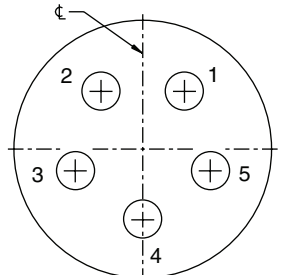
Insert Arrangement	Pin Connector	Socket Connector
 <p>10-5, 12-5 (5) #16 Contacts</p>		
 <p>10-201, 12-201 (2) #12 Contacts (4) #23 Contacts</p>		
 <p>10-202, 12-202 (2) #16 Contacts (8) #23 Contacts</p>		
 <p>10-200, 10-200 (1) #12 Contact (12) #23 Contacts</p>		
 <p>10-26, 12-26 (26) #23 Contacts .022 Max. Dia. Tail</p>		

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

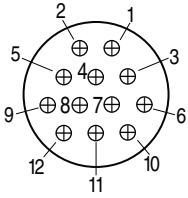
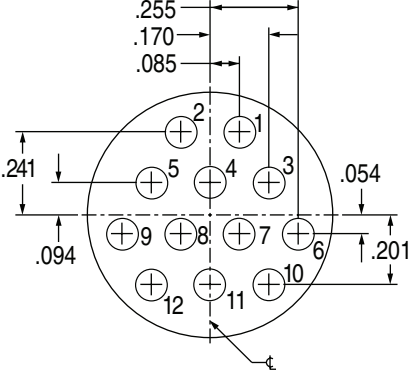
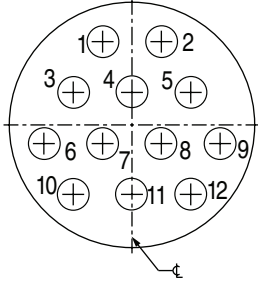
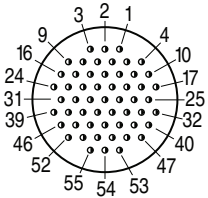
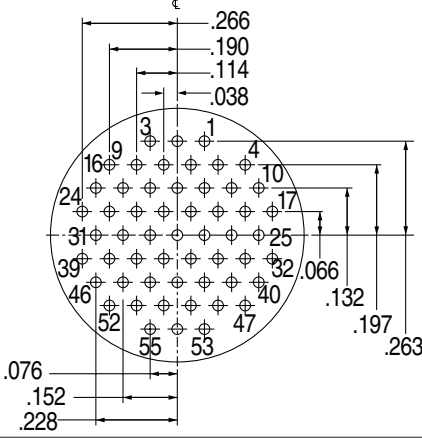
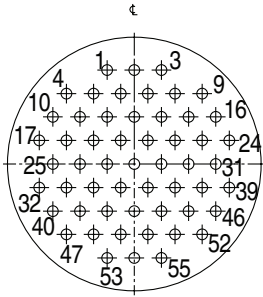
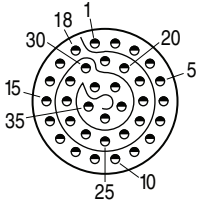
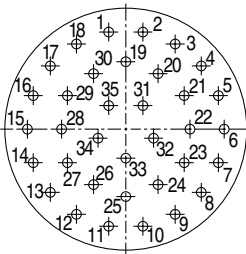
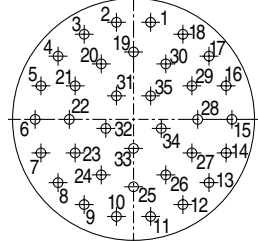
Insert Arrangement	Pin Connector	Socket Connector
 <p>12-2, 13-2, 15-2 (2) #12 Contacts</p>		
 <p>12-3, 13-3, 15-3 (3) #12 Contacts</p>		
 <p>12-7, 13-7, 15-7 (7) #16 Contacts</p>		
 <p>12-200, 13-200, 15-200 (2) #12 Contacts (6) #23 Contacts</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

Insert Arrangement	Pin Connector	Socket Connector
 <p>12-201, 13-201, 15-201 (2) #12 Contacts (10) #23 Contacts</p>		
 <p>12-220, 13-220, 15-220 (20) #20HD Contacts</p>		
 <p>12-37, 13-37, 15-37 (37) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>14-5, 16-5, 18-5 (5) #12 Contacts</p>		

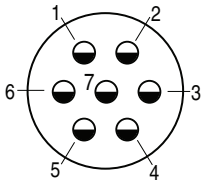
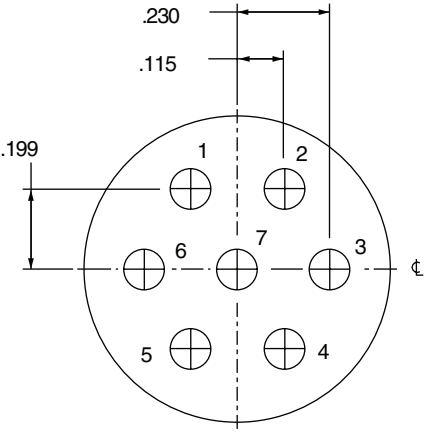
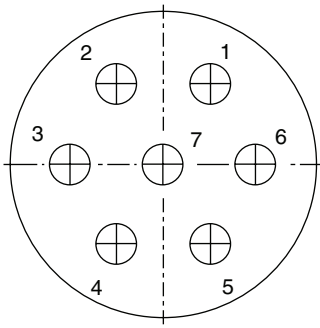
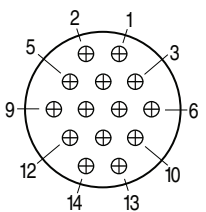
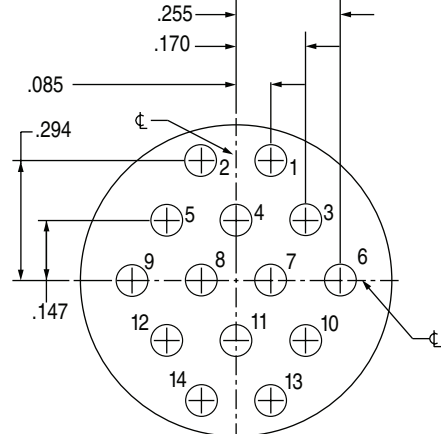
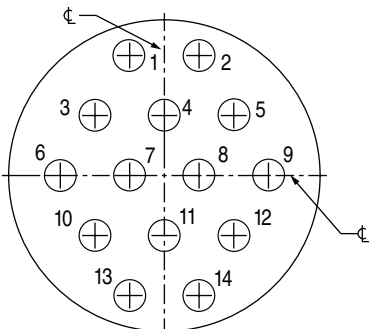
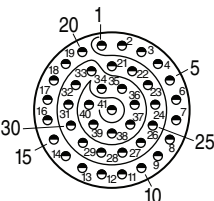
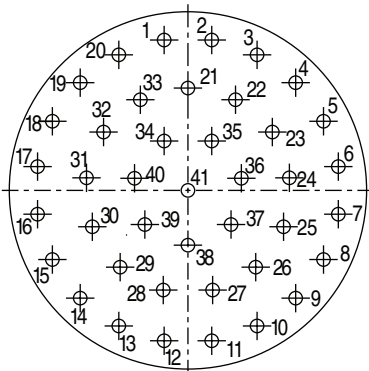
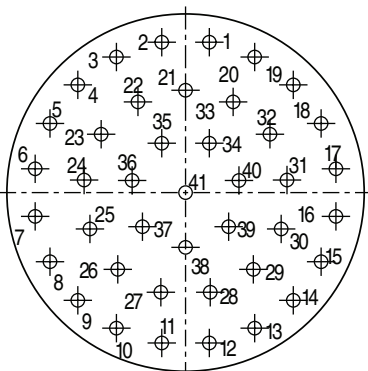
STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

Insert Arrangement	Pin Connector	Socket Connector
 <p>14-12, 16-12, 18-12 (12) #16 Contacts</p>		
 <p>14-55, 16-55, 18-55 (55) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>14-235, 16-235, 18-235 (35) #20HD Contacts .023 Max. Dia. Tail</p>		

Pin. No.	X		Y		Pin. No.	X		Y		Pin. No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.053	-1.35	.301	7.65	13	-.234	-5.94	-.196	-4.98	25	.000	0.00	-.209	-5.31
2	.053	1.35	.301	7.65	14	-.287	-7.29	-.104	-2.64	26	-.100	-2.54	-.172	-4.37
3	.153	3.89	.264	6.71	15	-.305	-7.75	.000	0.00	27	-.181	-4.60	-.104	-2.64
4	.234	5.94	.196	4.98	16	-.287	7.29	.104	2.64	28	-.199	-5.05	.000	0.00
5	.287	7.29	.104	2.64	17	-.234	-5.94	.196	4.98	29	-.181	-4.60	.104	2.64
6	.305	7.75	.000	0.00	18	-.153	-3.89	.264	6.71	30	-.100	-2.54	.172	4.37
7	.287	7.29	-.104	-2.64	19	.000	0.00	.209	5.31	31	-.053	-1.35	.073	1.85
8	.234	5.94	-.196	-4.98	20	.100	2.54	.172	4.37	32	.053	1.35	.073	1.85
9	.153	3.89	-.264	-6.71	21	.181	4.60	.104	2.64	33	.086	2.18	-.028	-0.71
10	.053	1.35	-.301	-7.65	22	.199	5.05	.000	0.00	34	.000	0.00	-.090	-2.29
11	-.053	-1.35	-.301	-7.65	23	.181	4.60	-.104	-2.64	35	-.086	-2.18	-.028	-0.71
12	-.153	-3.89	-.264	-6.71	24	.100	2.54	-.172	-4.37	-	-	-	-	-

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

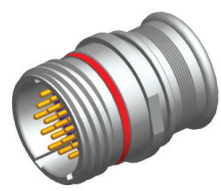
Insert Arrangement	Pin Connector	Socket Connector
 <p>15-7, 17-7, 19-7 (7) #12 Contacts</p>		
 <p>15-14, 17-14, 19-14 (14) #16 Contacts</p>		
 <p>15-241, 16-241, 18-241 (41) #20HD Contacts .028 Max. Dia. Tail</p>		

Pin. No.	X		Y		Pin. No.	X		Y		Pin. No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.053	-1.35	.335	8.51	15	-.302	-7.67	-.154	-3.91	29	-.151	-3.84	-.171	-4.34
2	.053	1.35	.335	8.51	16	-.335	-8.51	-.053	-1.35	30	-.213	-5.41	-.081	-2.06
3	.154	3.91	.302	7.67	17	-.335	-8.51	.053	1.35	31	-.226	-5.74	.028	0.71
4	.240	6.10	.240	6.10	18	-.302	-7.67	.154	3.91	32	-.188	-4.78	.130	3.30
5	.302	7.67	.154	3.91	19	-.240	-6.10	.240	6.10	33	-.106	-2.69	.202	5.13
6	.335	8.51	.053	1.35	20	-.154	-3.91	.302	7.67	34	-.053	-1.35	.110	2.79
7	.335	8.51	-.053	-1.35	21	.000	0.00	.228	5.79	35	.053	1.35	.110	2.79
8	.302	7.67	-.154	-3.91	22	.106	2.69	.202	5.13	36	.119	3.02	.027	0.69
9	.240	6.10	-.240	-6.10	23	.188	4.78	.130	3.30	37	.096	2.44	-.076	-1.93
10	.154	3.91	-.302	-7.67	24	.226	5.74	.028	0.71	38	.000	0.00	-.122	-3.10
11	+.053	+1.35	-.335	-8.51	25	.213	5.41	-.081	-2.06	39	-.096	-2.44	-.076	-1.93
12	-.053	-1.35	-.335	-8.51	26	.151	3.84	-.171	-4.34	40	-.119	-3.02	.027	0.69
13	-.154	-3.91	-.302	-7.67	27	.055	1.40	-.222	-5.64	41	.000	0.00	.000	0.00
14	-.240	-6.10	-.240	-6.10	28	-.055	-1.40	-.222	-5.64	-	-	-	-	-

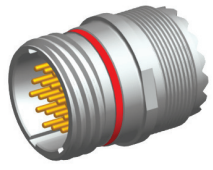
CREATE YOUR PART NUMBER 2M801 DUAL START ACME THREADS

1	2	3	4	5	6
2M801-009-07	NF	24-61	P	A	-501
SHELL STYLE	SERVICE CLASS	SHELL SIZE - LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE



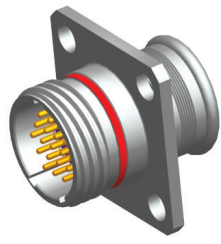
2M801-009-01
In-Line with Integral Backshell



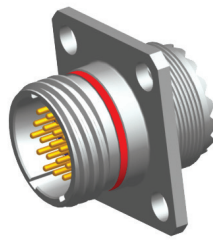
2M801-010-01
In-Line with Rear Accessory Threads



2M801-007-16
Plug with Integral Backshell Anti-Decoupling Spring



2M801-009-02
Square Flange with Integral Backshell

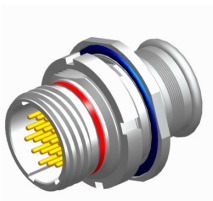


2M801-010-02
Square Flange with Rear Accessory Threads

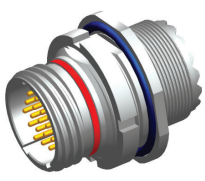
2M801-007-26
Self-Locking Plug with Ratchet Mechanism



2M801-008-16
Plug with Rear Accessory Thread Anti-Decoupling Spring



2M801-009-07*
Jam Nut with Integral Backshell



2M801-010-07*
Jam Nut with Rear Accessory Threads

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS

- C** = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** = Aluminum/ Electroless Nickel (RoHS)
- NF** = Aluminum/ Cadmium with Olive Drab Chromate
- MT** = Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** = Stainless Steel/ Passivated
- ZM** = Stainless Steel/ Electroless Nickel (RoHS)
- ZN** = Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

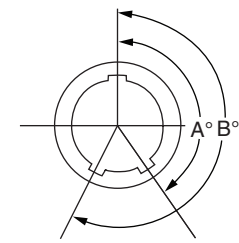
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
13-2	2					2
13-3	3					3
13-7	7				7	
13-37	37	37				
13-200	8	6				2
13-201	12	10				2
13-220	20			20		
16-5	5					5
16-12	12				12	
16-55	55	55				
16-235	35			35		
17-7	7					7
17-14	14				14	
17-85	85	85				
17-241	41			41		
21-12	12					12
21-22	22				22	
21-130	130	130				
21-269	69			69		

STEP 4: SELECT CONTACT

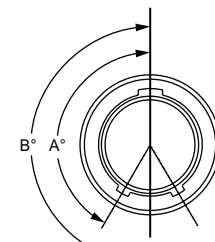
- P** = Pin
- S** = Socket
- A** = Less pin contacts
- B** = Less socket contacts

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
A	150	210
B	75	210
C	95	230
D	140	275
E	75	275
F	95	210



Receptacle View



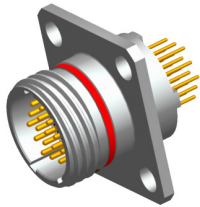
Plug View

STEP 6: SELECT MODIFIER

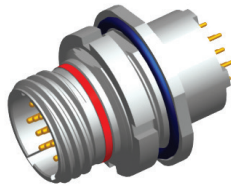
- Blank** = Default spanner nut supplied
- 501*** = Hex nut supplied

*For Jam nut type only

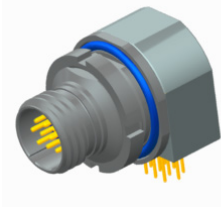
1	2	3	4	5	6
2M801-033-07	NF	6-7	P	A	-501
SHELL STYLE	SERVICE CLASS	SHELL SIZE- INSERT ARR.	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE**RECEPTACLES****2M801-011-02**

Square flange with Solder Cup or PCB Termination with Epoxy Potting

**2M801-011-07***

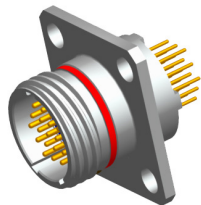
Jam Nut for Solder Cup or PCB Termination with Epoxy Potting

**2M801-023-07**

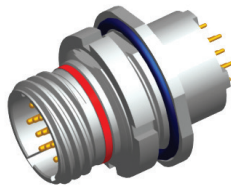
Jam Nut with Right Angle PCB termination.

Contacts P or S type only.

‡ Not available in all layouts.

**2M801-033-02**

Square flange with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1-10-4 cc/sec. pressure differential from -55°C to 150° C.

**2M801-033-07***

Jam Nut with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1-10-4 cc/sec. pressure differential from -55°C to 150° C.

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS

C = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
M = Aluminum/ Electroless Nickel (RoHS)
NF = Aluminum/ Cadmium with Olive Drab Chromate
MT = Aluminum/ Nickel-PTFE(Durmalon) (RoHS)

Z1 = Stainless Steel/ Passivated
ZM = Stainless Steel/ Electroless Nickel (RoHS)
ZN = Aluminum/ Zinc-Nickel with Olive Drab Chromate
ZNU = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3‡	3	3				
6-1	1				1	
6-4‡	4	4				
6-6	6	6				
6-7‡	7	7				
6-23	3			3		
7-1	1					1
7-10‡	10	10				
7-25	5			5		
8-2‡	2				2	
8-13‡	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19‡	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
13-2	2					2
13-3	3					3
13-7	7				7	
13-37	37	37				
13-200	8	6				2
13-201	12	10				2
13-220	20			20		
16-5	5					5
16-12	12				12	
16-55	55	55				
16-235	35			35		
17-7	7					7
17-14	14				14	
17-85	85	85				
17-241	41			41		
21-12	12					12
21-22	22				22	
21-130	130	130				
21-269	69			69		

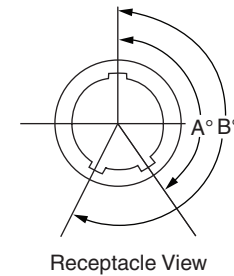
‡ 2M801-023-07 right angle PCB layout

STEP 4: SELECT CONTACT

- P** = Pin - PCB
- S** = Socket - PCB
- E** = Pin - Solder Cup
- F** = Socket - Solder Cup

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
A	150	210
B	75	210
C	95	230
D	140	275
E	75	275
F	95	210



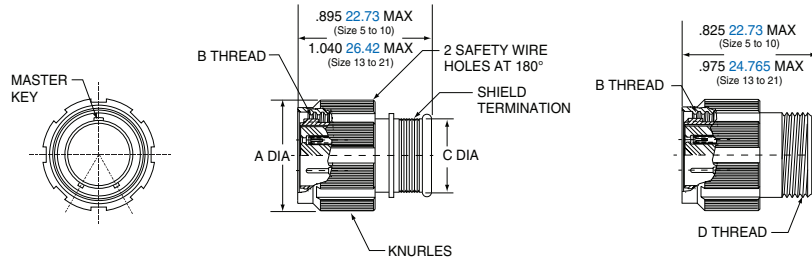
STEP 6: SELECT MODIFIER*

- Blank** = Default spanner nut supplied
- 501** = Hex nut supplied

*For Jam nut type only

PLUG

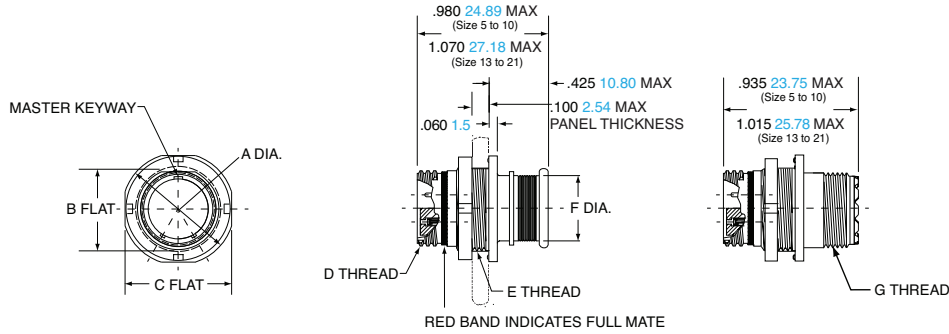
- 2M801-007-16
- 2M801-007-26
- 2M801-008-16
- 2M801-008-26



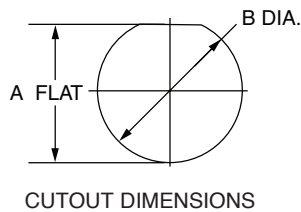
SHELL SIZE	STYLE 16		STYLE 26		B THREAD	C DIA.		D THREAD
	A DIA.		A DIA.			IN.	MM.	
5	.545	13.84	.660	16.76	.3125-.05P-.1L-2B	0.245	6.22	.2500-32 UNEF-2A
6	.610	15.49	.710	18.03	.3750-.05P-.1L-2B	0.290	7.37	.3125-32 UNEF-2A
7	.695	17.65	.790	20.07	.4375-.05P-.1L-2B	0.390	9.91	.4375-28 UNEF-2A
8	.750	19.05	.860	21.84	.5000-.05P-.1L-2B	0.445	11.30	.5000-28 UNEF-2A
9	.810	20.57	.920	23.37	.5625-.05P-.1L-2B	0.500	12.70	.5625-24 UNEF-2A
10	.890	22.61	.985	25.02	.6250-.05P-.1L-2B	0.560	14.22	.6250-24 UNEF-2A
13	1.060	26.92	1.150	29.21	.8125-.1P-.2L-2B	0.650	16.51	.6875-24 UNEF-2A
16	1.250	31.75	1.345	34.16	1.000-.1P-.2L-2B	0.805	20.45	.9375-20 UNEF-2A
17	1.310	33.27	1.400	35.56	1.0625-.1P-.2L-2B	0.850	21.59	.9375-20 UNEF-2A
21	1.560	39.62	1.660	42.16	1.3125-.1P-.2L-2B	1.135	28.83	1.1875-18 UNEF-2A

JAM NUT RECEPTACLE

- 2M801-009-07
- 2M801-010-07



SHELL SIZE	A DIA.		B FLAT		C FLAT		D THREAD	E THREAD	F DIA.		G THREAD
	IN.	MM.	IN.	MM.	IN.	MM.			IN.	MM.	
5	0.575	14.61	0.350	8.89	0.545	13.84	.3125-.05P-.1L-2A	.3750-28 UN-2A	0.245	6.22	.2500-32 UNEF-2A
6	0.635	16.13	0.410	10.41	0.595	15.11	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	0.290	7.37	.3125-32 UNEF-2A
7	0.755	19.18	0.536	13.61	0.723	18.36	.4375-.05P-.1L-2A	.5625-32 UN-2A	0.390	9.91	.4375-28 UNEF-2A
8	0.755	19.18	0.536	13.61	0.723	18.36	.5000-.05P-.1L-2A	.5625-32 UN-2A	0.445	11.30	.5000-28 UNEF-2A
9	0.830	21.08	0.596	15.14	0.790	20.07	.5625-.05P-.1L-2A	.6250-28 UN-2A	0.500	12.70	.5625-24 UNEF-2A
10	0.890	22.61	0.658	16.71	0.855	21.72	.6250-.05P-.1L-2A	.6875-28 UN-2A	0.560	14.22	.6250-24 UNEF-2A
13	1.078	27.38	0.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28 UN-2A	0.650	16.51	.6875-24 UNEF-2A
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20 UN-2A	0.805	20.45	.9375-20 UNEF-2A
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.125-28 UN-2A	0.850	21.59	.9375-20 UNEF-2A
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.375-28 UN-2A	1.110	28.19	1.1875-18 UNEF-2A

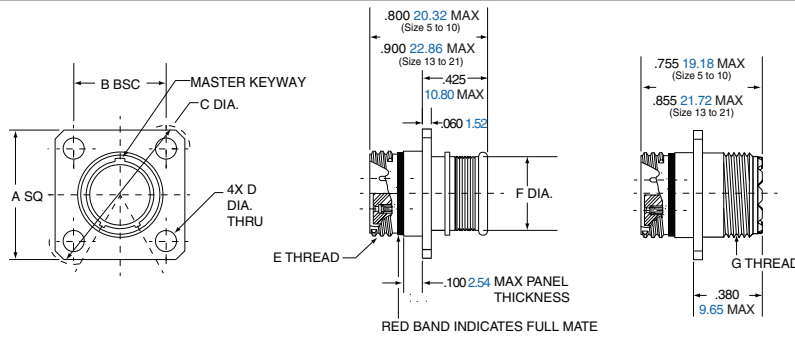


CUTOUT DIMENSIONS

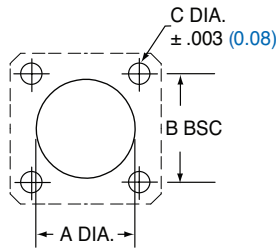
SHELL SIZE	A FLAT		B DIA.	
	IN +/- .002	MM +/- 0.05	IN +/- .002	MM +/- 0.05
5	0.356	9.04	0.385	9.78
6	0.416	10.57	0.447	11.35
7	0.542	13.77	0.572	14.53
8	0.542	13.77	0.572	14.53
9	0.602	15.29	0.635	16.13
10	0.666	16.62	0.697	17.7
13	0.851	21.62	0.885	22.48
16	1.028	26.11	1.075	27.31
17	1.102	27.99	1.135	28.83
21	1.354	34.39	1.385	35.18

SQUARE FLANGED RECEPTACLE

2M801-009-02
2M801-010-02



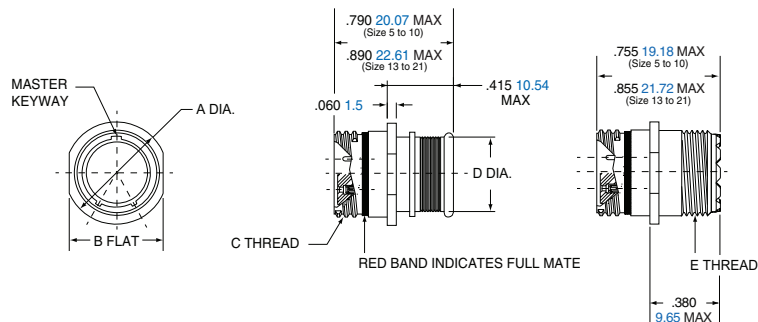
SHELL SIZE	A		B BSC		C DIA.		D DIA.		E THREAD	F DIA.		G THREAD
	IN.	MM.	IN.	MM.	IN.	MM.	IN. ± .003	MM. ± .08		IN.	MM.	
5	0.530	13.46	0.363	9.22	0.680	17.27	0.093	2.36	.3125-.05P-.1L-2A	0.245	6.22	.2500-32 UNEF-2A
6	0.590	14.99	0.423	10.74	0.750	19.05	0.093	2.36	.3750-.05P-.1L-2A	0.290	7.37	.3125-32 UNEF-2A
7	0.650	16.51	0.483	12.27	0.850	21.59	0.093	2.36	.4375-.05P-1L-2A	0.390	9.91	.4375-28 UNEF-2A
8	0.712	18.08	0.545	13.84	0.940	23.88	0.093	2.36	.5000-.05P-1L-2A	0.445	11.30	.5000-28 UNEF-2A
9	0.850	21.59	0.607	15.42	1.125	28.58	0.128	3.25	.5625-.05P-.1L-2A	0.500	12.70	.5625-24 UNEF-2A
10	0.890	22.61	0.670	17.02	1.190	30.23	0.128	3.25	.6250-.05P-1L-2A	0.560	14.22	.6250-24 UNEF-2A
13	1.030	26.16	0.812	20.62	1.375	34.93	0.128	3.25	.8125-.1P-.2L-2A	0.650	16.51	.6875-24 UNEF-2A
16	1.219	30.96	0.981	24.92	1.625	41.28	0.128	3.25	1.0000-.1P-.2L-2A	0.805	20.45	.9375-20 UNEF-2A
17	1.280	32.51	1.060	26.92	1.700	43.18	0.128	3.25	1.0625-.1P-.2L-2A	0.850	21.59	.9375-20 UNEF-2A
21	1.430	36.32	1.205	30.61	1.940	49.28	0.128	3.25	1.3125-.1P-.2L-2A	1.110	28.20	1.1875-18 UNEF-2A



FLANGE MOUNT PANEL CUTOUT						
SHELL SIZE	A DIA.		B DIA.		C DIA.	
	IN.	MM.	IN.	MM.	IN.	MM.
5	0.330	8.38	0.363	9.22	0.093	2.36
6	0.390	9.91	0.423	10.74	0.093	2.36
7	0.450	11.43	0.483	12.27	0.093	2.36
8	0.510	12.95	0.545	13.84	0.093	2.36
9	0.575	14.61	0.607	15.42	0.128	3.25
10	0.640	16.26	0.670	17.02	0.128	3.25
13	0.825	20.96	0.812	20.65	0.128	3.25
16	1.015	25.78	0.981	24.92	0.128	3.25
17	1.075	27.31	1.060	26.92	0.128	3.25
21	1.325	33.66	1.205	30.61	0.128	3.25

IN-LINE RECEPTACLE

2M801-009-01
2M801-010-01

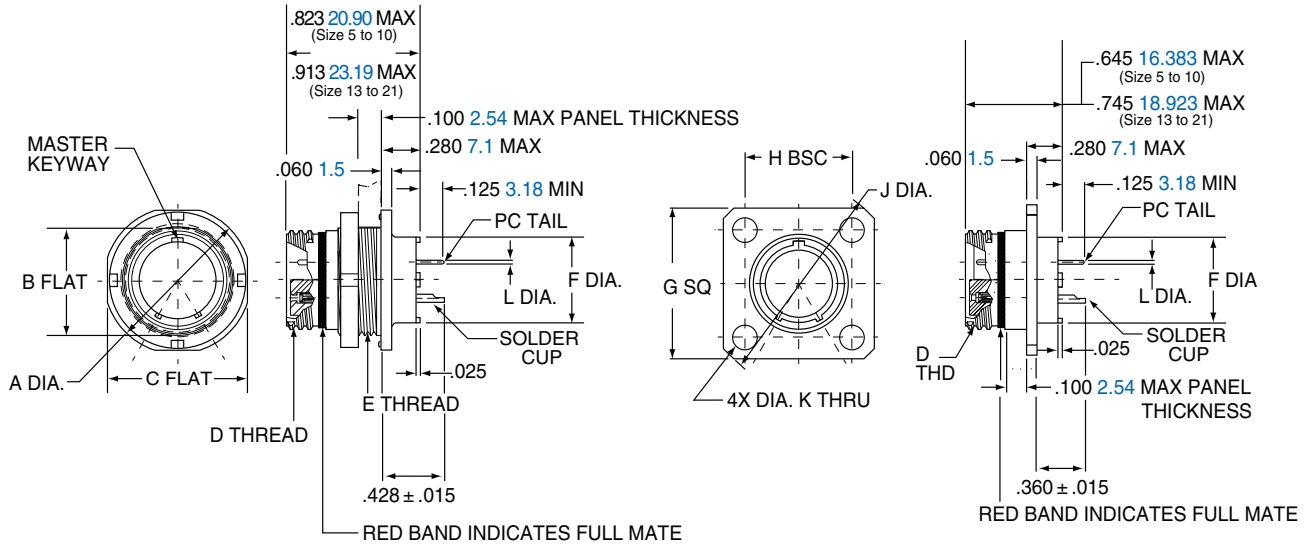


SHELL SIZE	A DIA.		B FLAT		C THREAD	D DIA.		E THREAD
	IN.	MM.	IN.	MM.		IN.	MM.	
5	0.355	9.02	0.325	8.13	.3125-.05P-.1L-2A	0.245	6.22	.2500-32 UNEF-2A
6	0.415	10.54	0.385	9.78	.3750-.05P-.1L-2A	0.29	7.37	.3125-32 UNEF-2A
7	0.48	12.19	0.445	11.3	.4375-.05P-.1L-2A	0.39	9.91	.4375-28 UNEF-2A
8	0.54	13.72	0.51	12.95	.5000-.05P-.1L-2A	0.445	11.3	.5000-28 UNEF-2A
9	0.605	15.37	0.575	14.61	.5625-.05P-.1L-2A	0.5	12.7	.5625-24 UNEF-2A
10	0.665	16.89	0.635	16.13	.6250-.05P-.1L-2A	0.56	14.22	.6250-24 UNEF-2A
13	0.855	21.72	0.825	20.96	.8125-.1P-.2L-2A	0.65	16.51	.6875-24 UNEF-2A
16	1.04	26.42	1.01	25.65	1.0000-.1P-.2L-2A	0.805	20.44	.9375-20 UNEF-2A
17	1.11	28.19	1.07	27.18	1.0625-.1P-.2L-2A	0.85	21.59	.9375-20 UNEF-2A
21	1.405	35.69	1.385	35.18	1.3125-.1P-.2L-2A	1.110	28.19	1.1875-18 UNEF-2A

JAM NUT AND SQUARE FLANGE PCB

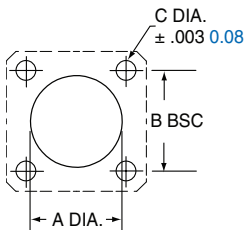
2M801-011-07
2M801-033-07

2M801-011-02
2M801-033-02

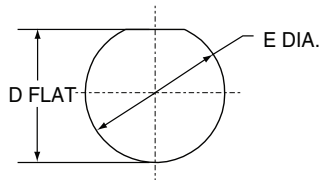


SHELL SIZE	A DIA.		B FLAT		C FLAT		D THREAD	E THREAD	F DIA.		G SQ.		H BSC		J DIA.		K DIA.		L DIA. TAIL DIA.
	IN.	MM.	IN.	MM.	IN.	MM.			IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.3750-28	.244	6.20	.530	13.46	.363	9.22	.680	17.27	.093	2.36	#23 .018/.022 0.46/0.56
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28	.330	8.38	.590	14.99	.423	10.74	.750	19.05	.093	2.36	#20/20HD .025/.027 0.64/0.69
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32	.432	10.97	.650	16.51	.483	12.27	.850	21.59	.093	2.36	#16 .060/.064 1.52/1.63
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32	.493	12.52	.712	18.08	.545	13.84	.938	23.88	.093	2.36	#12 .092/.096 2.34/2.44
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.6250-28	.551	14.00	.850	21.56	.607	15.42	1.125	28.58	.128	3.25	
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28	.620	15.75	.890	22.61	.670	17.02	1.188	30.23	.128	3.25	
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28	.703	17.86	1.030	26.16	.812	20.62	1.375	34.93	.128	3.25	
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20	.863	21.92	1.219	30.96	.981	24.92	1.625	41.28	.128	3.25	
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.1250-28	.912	23.16	1.280	32.51	1.060	26.92	1.700	43.18	.128	3.25	
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.3750-28	1.170	29.72	1.565	36.32	1.322	33.58	2.100	49.28	.128	3.25	

Square Flange 02



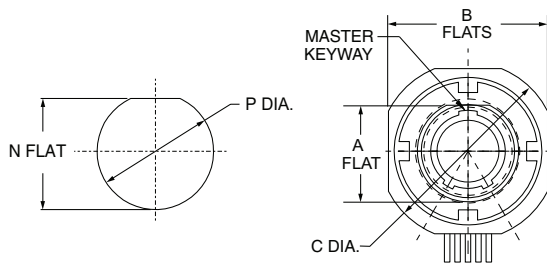
Jam Nut 07



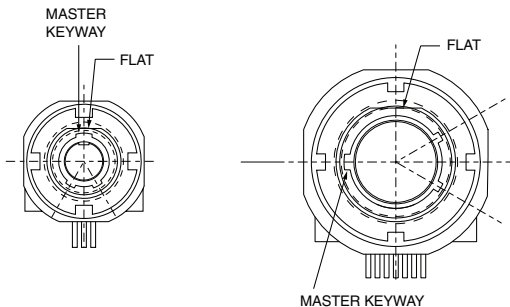
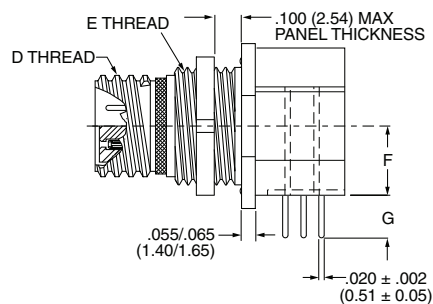
SHELL SIZE	PANEL CUTOUT																	
	A DIA.		B DIA.		C DIA.		D FLAT		E DIA.									
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.		
5	.330	8.38	.363	9.22	.093	2.36	.356	9.04	.385	9.78								
6	.390	9.91	.423	10.74	.093	2.36	.416	10.57	.447	11.35								
7	.450	11.43	.483	12.27	.093	2.36	.542	13.77	.572	14.53								
8	.510	12.95	.545	13.84	.093	2.36	.542	13.77	.572	14.53								
9	.575	14.61	.607	15.42	.128	3.25	.602	15.29	.635	16.13								
10	.640	16.26	.670	17.02	.128	3.25	.666	16.92	.697	17.70								
13	.825	20.96	.812	20.65	.128	3.25	.851	21.62	.885	22.48								
16	1.015	25.78	.981	24.92	.128	3.25	1.028	26.11	1.075	27.31								
17	1.075	27.31	1.060	26.92	.128	3.25	1.102	27.99	1.135	28.83								
21	1.330	33.78	1.322	33.58	.128	3.25	1.354	34.39	1.385	35.18								

JAM NUT RIGHT ANGLE PCB

2M801-023-07

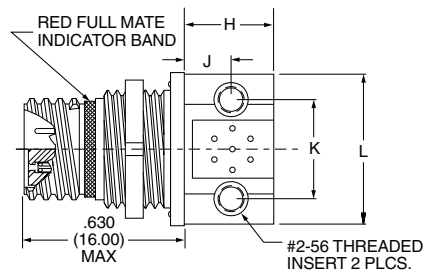


MASTER KEYWAY IS LOCATED AT TOP DEAD CENTER FOR ALL ARRANGEMENTS EXCEPT FOR THE 8-13.

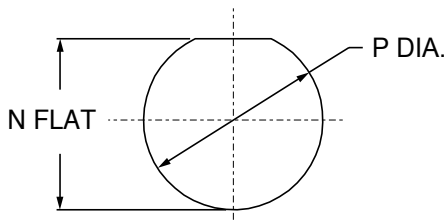


5-3, 6-4, 6-7, 7-10, AND 9-19
MASTER KEYWAY LOCATION

8-13
MASTER KEYWAY LOCATION

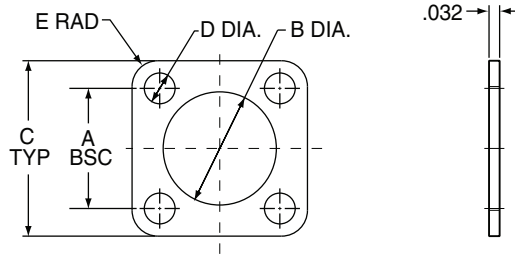


SHELL SIZE	A		B		C DIA.		D THREAD	E THREAD	F		G		H		J		K	
	IN. ±.005	MM. ±0.13	IN.	MM.	IN.	MM.			IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
5-3	.350	8.89	.548	13.92	.575	14.61	.3125-.05P-.1L-2A	.3750-28 UN-2A	.225	5.72	.275	6.99	.260	6.60	.165	4.19	.310	7.87
6-4	.410	10.41	.598	15.19	.635	16.13	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.225	5.72	.265	6.73	.345	8.76	.187	4.75	.408	10.36
6-7	.410	10.41	.598	15.19	.635	16.13	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.225	5.72	.265	6.73	.345	8.76	.187	4.75	.408	10.36
7-10	.536	13.61	.726	18.44	.755	19.18	.4375-.05P-.1L-2A	.5625-32 UN-2A	.296	7.52	.273	6.93	.345	8.76	.170	4.32	.452	11.48
8-2	.538	13.67	.728	18.49	.758	19.25	.5000-.05P-.1L-2A	.5625-32 UN-2A	.319	8.10	.316	.803	.490	12.45	.230	5.84	.490	4.31
8-13	.538	13.67	.728	18.49	.758	19.25	.5000-.05P-.1L-2A	.5625-32 UN-2A	.319	8.10	.316	8.03	.490	12.45	.230	5.84	.490	12.45
9-19	.596	15.14	.793	20.14	.833	21.16	.5625-.05P-.1L-2A	.6250-28 UN-2A	.360	9.14	.275	6.99	.490	12.45	.342	8.69	.600	15.24



PANEL CUTOUT						
SHELL SIZE	L		N		P	
	IN.	MM.	IN. ±.002	MM. ±0.05	IN. ±.005	MM. ±0.13
5-3	.490	14.45	.357	9.07	.385	9.78
6-4	.589	15.19	.418	10.62	.448	11.37
6-7	.589	15.19	.418	10.62	.448	11.37
7-10	.710	18.03	.544	13.82	.573	14.55
8-2	.710	18.03	.544	13.82	.573	14.55
8-13	.710	18.03	.544	13.82	.573	14.55
9-19	.800	20.32	.603	15.32	.635	16.13

SQUARE FLANGED GASKETS



SHELL SIZE	PART NUMBER			A BSC.		B DIA.		C TYP.		D DIA.		E RAD.	
	FLUOROSILICONE	VITON®	CONDUCTIVE	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
5	2M809-108F11	2M809-108V11	2M809-108X11	0.363	9.22	0.342	8.69	0.530	13.46	0.093	2.36	0.078	1.98
6	2M809-108F12	2M809-108V12	2M809-108X12	0.423	10.74	0.405	10.29	0.590	14.99	0.093	2.36	0.078	1.98
7	2M809-108F13	2M809-108V13	2M809-108X13	0.483	12.27	0.467	11.86	0.650	16.51	0.093	2.36	0.078	1.98
8	2M809-108F14	2M809-108V14	2M809-108X14	0.542	13.84	0.530	13.46	0.712	18.08	0.093	2.36	0.078	1.98
9	2M809-108F15	2M809-108V15	2M809-108X15	0.719	17.02	0.655	16.64	0.890	22.61	0.125	3.18	0.105	2.67
10	2M809-108F16	2M809-108V16	2M809-108X16	0.719	17.02	0.655	16.64	0.890	22.61	0.125	3.18	0.105	2.67
13	2M809-108F17	2M809-108V17	2M809-108X17	0.812	20.62	0.842	21.39	1.030	26.16	0.125	3.18	0.105	2.67
16	2M809-108F18	2M809-108V18	2M809-108X18	0.981	24.92	1.030	26.16	1.219	30.96	0.125	3.18	0.105	2.67
17	2M809-108F19	2M809-108V19	2M809-108X19	1.060	26.92	1.092	27.74	1.280	32.51	0.125	3.18	0.105	2.67
21	2M809-108F43	2M809-108V43	2M809-108X43	1.322	33.58	1.332	33.83	1.570	39.88	0.125	3.18	0.105	2.67

SHRINK BOOTS FOR INTEGRAL ENDBELL

High Performance Elastomer

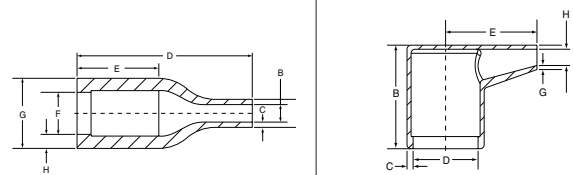
Pre-Coated with high-temperature adhesive

- Operating temperature -94 F to +302 F (-70 C to +150 C)
- Rated for 3000 hours of continuous operation at +302 F (+150 C)
- Excellent resistance to fuels, oils, and solvents
- Spec VG95343 Part 6

Zero-Halogen

Low-Smoke, Zero-Halogen Toxicity Requirements

- Meets U.S. and E.U. standards
- Pre-coated with high-temperature adhesive
- Operating temperature -22 F to +257 F (-30 C to +125 C)
- Good resistance to fuels, oils, and solvents
- Spec NAVSEA 5617649



BOOT SIZE	SHELL SIZE	HIGH-PERFORMANCE ELASTOMER		ZERO-HALOGEN		STRAIGHT BOOT CABLE RANGE		MIN.		MAX.		RIGHT ANGLE BOOT CABLE RANGE		MIN.		MAX.	
		STRAIGHT	RIGHT ANGLE	STRAIGHT	RIGHT ANGLE	MAX.		MIN.		MAX.		MIN.		MAX.			
						IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.				
1	5	2M809S060-1	2M809A060-1	2M809S060-1H	2M809A060-1H *	0.350	9.0	0.080	2.0	0.240	6.0	0.080	2.0				
2	6, 7	2M809S060-2	2M809A060-2	2M809S060-2H	2M809A060-2H	0.650	16.5	0.150	3.8	0.650	16.5	0.100	2.5				
3	8, 9	2M809S060-3	2M809A060-3	2M809S060-3H	2M809A060-3H	0.920	23.4	0.220	5.6	0.920	23.3	0.220	5.6				
4	10, 13	2M809S060-4	2M809A060-4	2M809S060-4H	2M809A060-4H	1.120	28.4	0.260	6.6	1.120	28.5	0.250	6.3				
5	16, 17	2M809S060-5	2M809A060-5	2M809S060-5H	2M809A060-5H	1.220	31.0	0.280	7.1	1.220	30.9	0.280	7.1				
6	21	2M809S060-6	2M809A060-6	2M809S060-6H	2M809A060-6H	1.680	42.7	0.390	9.9	1.680	42.6	0.380	9.7				

* Size 1 Zero-halogen right-angle supplied less lip, see graphic

DUSTCAPS



SHELL SIZE FOR 2M801	METAL DUSTCAPS WITH NYLON ROPE LANYARD		
	FOR PLUGS WITH RING ATTACHMENT	FOR FLANGED RECEPTACLES WITH RING ATTACHMENT	FOR JAM NUT RECEPTACLES WITH LARGE RING ATTACHMENT
5	2M667-217-XX-G502-4	2M667-218-XX-G501-3	2M667-218-XX-G514-4
6	2M667-217-XX-G602-4	2M667-218-XX-G601-3	2M667-218-XX-G615-4
7	2M667-217-XX-G702-4	2M667-218-XX-G701-3	2M667-218-XX-G716-4
8	2M667-217-XX-G802-4	2M667-218-XX-G801-3	2M667-218-XX-G816-4
9	2M667-217-XX-G902-4	2M667-218-XX-G902-3	2M667-218-XX-G917-4
10	2M667-217-XX-G1002-5	2M667-218-XX-G1002-3	2M667-218-XX-G1018-4
13	2M667-217-XX-G1302-5	2M667-218-XX-G1302-3	2M667-218-XX-G1319-4
16	2M667-217-XX-G1602-6	2M667-218-XX-G1602-3	2M667-218-XX-G1620-4
17	2M667-217-XX-G1702-6	2M667-218-XX-G1702-3	2M667-218-XX-G1721-4
21	2M667-217-XX-G2102-6	2M667-218-XX-G2102-3	2M667-218-XX-G1724-4

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** Aluminum/ Electroless Nickel (RoHS)
- NF** Aluminum/ Cadmium with Olive Drab Chromate
- MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)

- Z1** Stainless Steel/ Passivated
 - ZM** Stainless Steel/ Electroless Nickel (RoHS)
 - ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
 - ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)
- REPLACE XX WITH PLATING CODE**

STRAIN RELIEF CABLE CLAMP WITH ROTATABLE COUPLING

SHELL SIZE	PART NUMBER	THREAD SIZE 2B	CABLE ENTRY DIA.
5	2M620MS065-XX05	.2500-32 UNEF	0.11
6	2M620MS065-XX06	.3125-32 UNEF	0.17
7	2M620MS065-XX07	.4375-28 UNEF	0.23
8	2M620MS065-XX08	.5000-28 UNEF	0.30
9	2M620MS065-XX09	.5625-24 UNEF	0.30
10	2M620MS065-XX10	.6250-24 UNEF	0.36
13	2M620MS065-XX12	.6875-24 UNEF	0.42
16	2M620MS065-XX14	.9375-20 UNEF	0.48
17	2M620MS065-XX15	.9375-20 UNEF	0.61
21	2M620MS065-XX17	1.1875-18 UNEF	0.86

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** Aluminum/ Electroless Nickel (RoHS)
- NF** Aluminum/ Cadmium with Olive Drab Chromate
- MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** Stainless Steel/ Passivated
- ZM** Stainless Steel/ Electroless Nickel (RoHS)
- ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

REPLACE XX WITH PLATING CODE

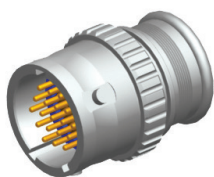
ADDITIONAL BACKSHELLS

	DESCRIPTION	PART NUMBER PREFIX	STRAIGHT	90°	45°
	Thread-On BAND-IT Adapter	2M440MS135	X		
		2M440ML135		X	
		2M440MK135			X
	Low-Profile BAND-IT Adapter	2M440MS134	X		
	Environmental Backshell	2M370MS038	X		
		2M370MA038		X	
		2M370MB038			X
	EMI Backshell	2M380MS137	X		
		2M380MA137		X	
		2M380MB137			X
	Environmental EMI Backshell	2M390MS077	X		
		2M390MA077		X	
		2M390MB077			X

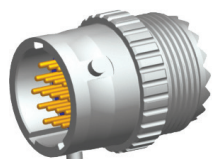
1	2	3	4	5	6
2M803-003-07	NF	8-13	P	N	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES ← Mates with → PLUGS



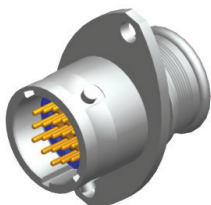
2M803-003-01
In-Line with Integral Backshell



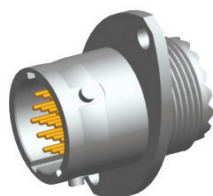
2M803-004-01
In-Line with Rear Accessory Threads



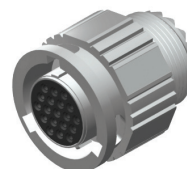
2M803-001-06
Plug with Integral Backshell



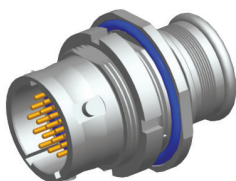
2M803-003-02
2-Hole Flange with Integral Backshell



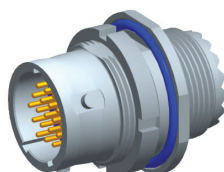
2M803-004-02
2-Hole Flange with Rear Accessory Threads



2M803-002-06
Plug with Rear Accessory Thread



2M803-003-07*
Jam Nut with Integral Backshell



2M803-004-07*
Jam Nut with Rear Accessory Threads

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT PLATING

- C** = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** = Aluminum/ Electroless Nickel (RoHS)
- NF** = Aluminum/ Cadmium with Olive Drab Chromate
- MT** = Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** = Stainless Steel/ Passivated
- ZM** = Stainless Steel/ Electroless Nickel (RoHS)
- ZN** = Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

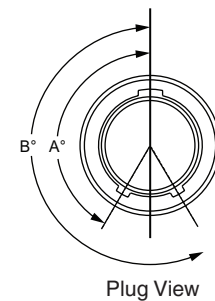
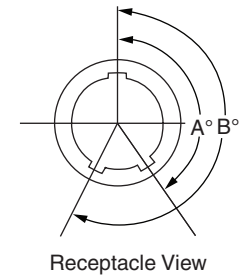
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
12-2	2					2
12-3	3					3
12-7	7				7	
12-37	37	37				
12-200	8	6				2
12-201	12	10				2
12-220	20			20		
14-5	5					5
14-12	12				12	
14-55	55	55				
14-235	35			35		
15-7	7					7
15-14	14				14	
15-85	85	85				

STEP 4: SELECT CONTACT

- P** = Pin
- S** = Socket
- A** = Less pin contacts
- B** = Less socket contacts

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
N	150	210
X	75	210
Y	95	230
Z	140	275



STEP 6: SELECT MODIFIER*

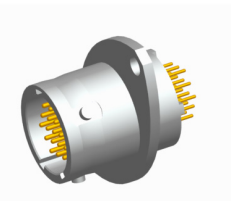
-501 = Hex nut supplied

Blank = Default Spanner Nut supplied

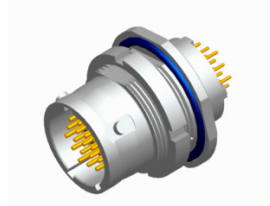
*For Jam nut type only

CREATE YOUR PART NUMBER 2M803 BAYONET - PCB RECEPTACLE

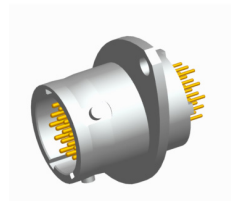
1	2	3	4	5	6
2M803-005-07	NF	8-13	P	N	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE**RECEPTACLES****2M803-005-02**

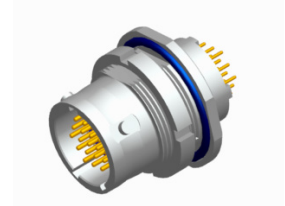
2-Hole Flange mount with Solder Cup or PCB Termination with Epoxy Potting

**2M803-005-07***

Jam Nut for Solder Cup or PCB Termination with Epoxy Potting

**2M803-015-02**

2-Hole Flange Mount with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1-10-4 cc/sec. pressure differential from -55°C to 150° C.

**2M803-015-07***

Jam Nut with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1-10-4 cc/sec. pressure differential from -55°C to 150° C.

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS

C = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
M = Aluminum/ Electroless Nickel (RoHS)
NF = Aluminum/ Cadmium with Olive Drab Chromate
MT = Aluminum/ Nickel-PTFE(Durmalon) (RoHS)

Z1 = Stainless Steel/ Passivated
ZM = Stainless Steel/ Electroless Nickel (RoHS)
ZN = Aluminum/ Zinc-Nickel with Olive Drab Chromate
ZNU = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

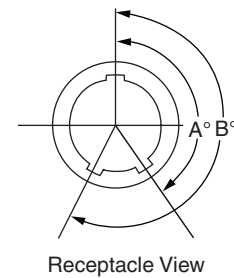
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
12-2	2					2
12-3	3					3
12-7	7				7	
12-37	37	37				
12-200	8	6				2
12-201	12	10				2
12-220	20			20		
14-5	5					5
14-12	12				12	
14-55	55	55				
14-235	35			35		
15-7	7					7
15-14	14				14	
15-85	85	85				

STEP 4: SELECT CONTACT

- P** = Pin - PCB
- S** = Socket - PCB
- E** = Pin - Solder Cup
- F** = Socket - Solder Cup

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
N	150	210
X	75	210
Y	95	230
Z	140	275



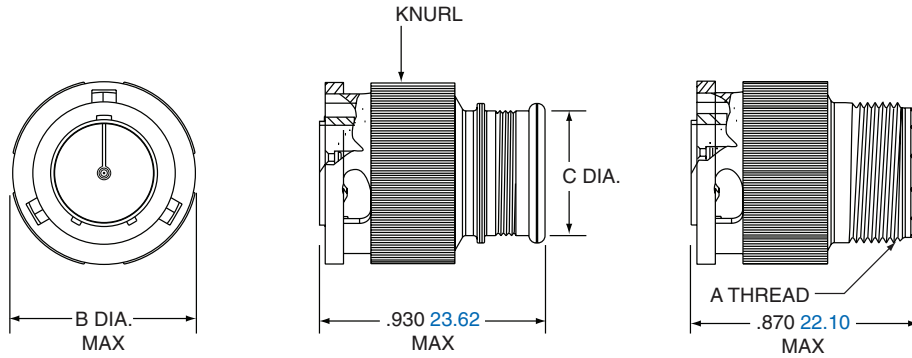
STEP 6: SELECT MODIFIER*

- Blank** = Default spanner nut supplied
- 501** = Hex nut supplied

*For Jam nut type only

PLUG

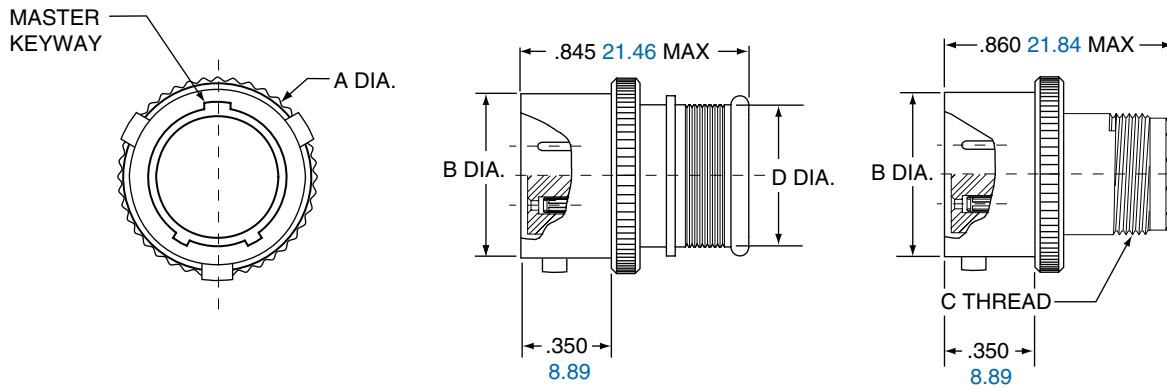
2M803-001-06
2M803-002-06



SHELL SIZE	A THREAD	B DIA. MAX.		C DIA.	
		IN.	MM.	IN.	MM.
5	.2500-32 UNEF-2A	.475	12.07	.245	6.22
6	.3125-32 UNEF-2A	.540	13.72	.290	7.37
7	.4375-28 UNEF-2A	.620	15.75	.390	9.91
8	.5000-28 UNEF-2A	.675	17.15	.450	11.43
9	.5625-24 UNEF-2A	.745	18.92	.500	12.70
10	.6250-24 UNEF-2A	.812	20.63	.562	14.28
12	.6875-24 UNEF-2A	.894	22.71	.650	16.51
14	.9375-20 UNEF-2A	1.060	26.92	.800	20.32
15	.9375-20 UNEF-2A	1.120	28.45	1.035	26.29

IN-LINE

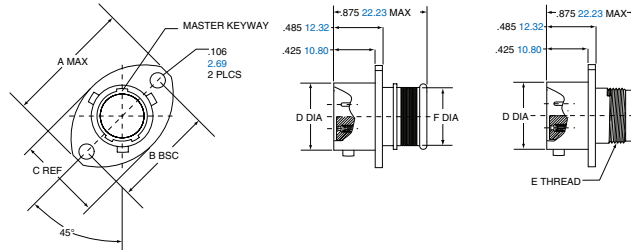
2M803-003-01
2M803-004-01



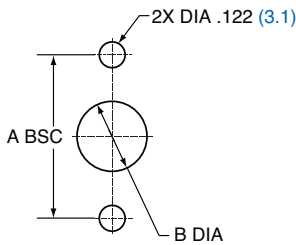
SHELL SIZE	A MAX.		B DIA.		C THREAD	D DIA.	
	IN.	MM.	IN.	MM.		IN.	MM.
5	.385	9.78	.300	7.62	.2500-32 UNEF-2A	.245	6.22
6	.465	11.81	.362	9.19	.3125-32 UNEF-2A	.290	7.37
7	.485	12.32	.438	11.13	.4375-28 UNEF-2A	.390	9.91
8	.566	14.38	.498	12.65	.5000-28 UNEF-2A	.450	11.43
9	.658	16.71	.564	14.33	.5625-24 UNEF-2A	.500	12.70
10	.720	18.29	.636	16.15	.6250-24 UNEF-2A	.562	14.27
12	.810	20.57	.713	18.11	.6875-24 UNEF-2A	.650	16.51
14	1.027	26.09	.865	21.97	.9375-20 UNEF-2A	.805	20.44
15	1.027	26.09	.924	23.47	.9375-20 UNEF-2A	.850	21.59

FLANGE MOUNT RECEPTACLE

2M803-003-02
2M803-004-02



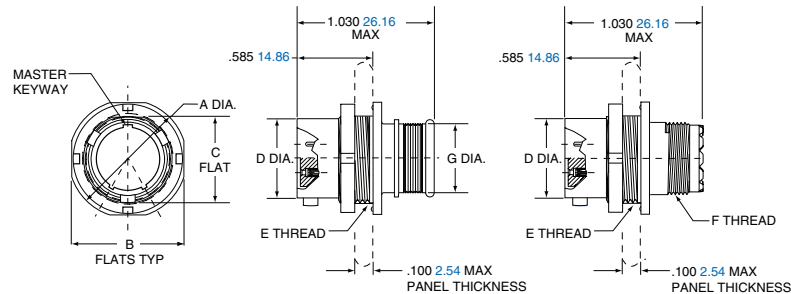
SHELL SIZE	A MAX.		B BSC.		C REF.		D DIA.		E THREAD	F DIA.	
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.		IN.	MM.
5	.710	18.03	.513	13.03	.460	11.68	.300	7.62	.2500-32 UNEF-2A	.245	6.30
6	.788	20.02	.598	15.19	.522	13.26	.362	9.19	.3125-32 UNEF-2A	.290	7.44
7	.895	22.73	.708	17.98	.590	14.99	.436	11.07	.4375-28 UNEF-2A	.390	9.86
8	1.154	29.31	.964	24.49	.668	16.97	.500	12.70	.5000-28 UNEF-2A	.450	11.38
9	1.210	30.73	1.017	25.83	.721	18.31	.561	14.25	.5625-24 UNEF-2A	.500	12.78
10	1.291	32.79	1.101	27.97	.795	20.19	.635	16.13	.6250-24 UNEF-2A	.562	14.30
12	1.395	35.43	1.204	30.58	.874	22.20	.714	18.14	.6875-24 UNEF-2A	.650	16.71
14	1.550	39.37	1.280	32.51	1.050	26.67	.865	21.97	.9375-20 UNEF-2A	.805	20.40
15*	-	-	-	-	-	-	-	-	-	-	-



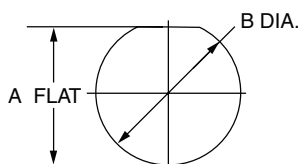
SHELL SIZE	FLANGE MOUNT PANEL CUTOUTS			
	A BSC.		B DIA.	
	IN.	MM.	IN.	MM.
5	0.513	13.03	0.365	9.25
6	0.598	15.19	0.430	10.92
7	0.708	17.98	0.520	13.21
8	0.964	17.98	0.592	15.04
9	1.017	25.83	0.645	16.38
10	1.101	27.97	0.726	18.44
12	1.204	30.58	0.832	21.13
14	1.280	32.51	0.945	24.00
15*	-	-	-	-

JAM NUT RECEPTACLES

2M803-003-07
2M803-004-07



SHELL SIZE	A DIA.		B FLAT		C FLAT		D DIA.		E THREAD	F THREAD	G DIA.	
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.			IN.	MM.
5	.575	14.61	.545	13.84	.350	8.89	.300	7.62	.3750-32 UNEF-2A	.2500-32 UNEF-2A	.245	6.22
6	.635	16.13	.595	15.11	.410	10.41	.362	9.19	.4375-28 UNEF-2A	.3125-32 UNEF-2A	.290	7.37
7	.755	19.18	.723	18.36	.536	13.61	.436	11.07	.5625-32 UN-2A	.4375-28 UNEF-2A	.390	9.91
8	.830	21.08	.790	20.11	.593	15.10	.498	12.65	.6250-28 UN-2A	.5000-28 UNEF-2A	.450	11.43
9	.830	21.08	.790	20.07	.596	15.14	.561	14.25	.6250-28 UN-2A	.5625-24 UNEF-2A	.500	12.70
10	.955	24.26	.925	23.51	.721	18.31	.635	16.13	.7500-28 UN-2A	.6250-24 UNEF-2A	.562	14.27
12	1.078	27.38	1.044	26.52	.845	21.46	.714	18.14	.8750-28 UN-2A	.6875-24 UNEF-2A	.650	16.51
14	1.264	32.11	1.230	31.24	1.022	25.96	.865	21.97	1.0625-20 UN-2A	.9375-20 UNEF-2A	.805	20.45
15	1.322	33.58	1.287	32.69	1.093	27.76	.924	23.47	1.1250-28 UN-2A	.9375-20 UNEF-2A	.850	21.59

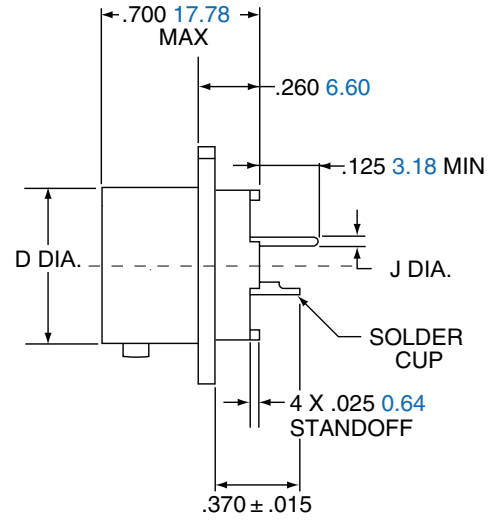
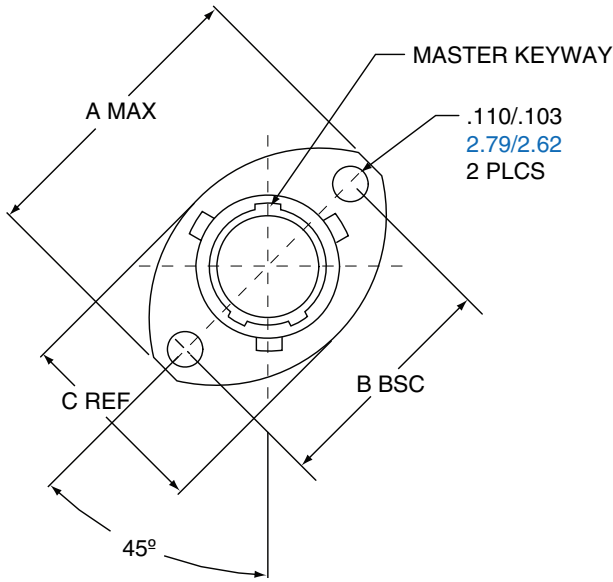


SHELL SIZE	JAM NUT PANEL CUTOUTS			
	A FLAT		B DIA.	
	IN.	MM.	IN.	MM.
5	.355	9.02	.382	9.70
6	.415	10.54	.445	11.30
7	.541	13.74	.572	14.53
8	.601	15.27	.635	16.13
9	.601	15.27	.643	16.33
10	.729	18.52	.760	19.29
12	.850	21.59	.885	22.48
14	1.031	26.19	1.072	27.23
15*	-	-	-	-

*Shell size 15 not currently available

FLANGE MOUNT RECEPTACLE PCB

2M803-005-02

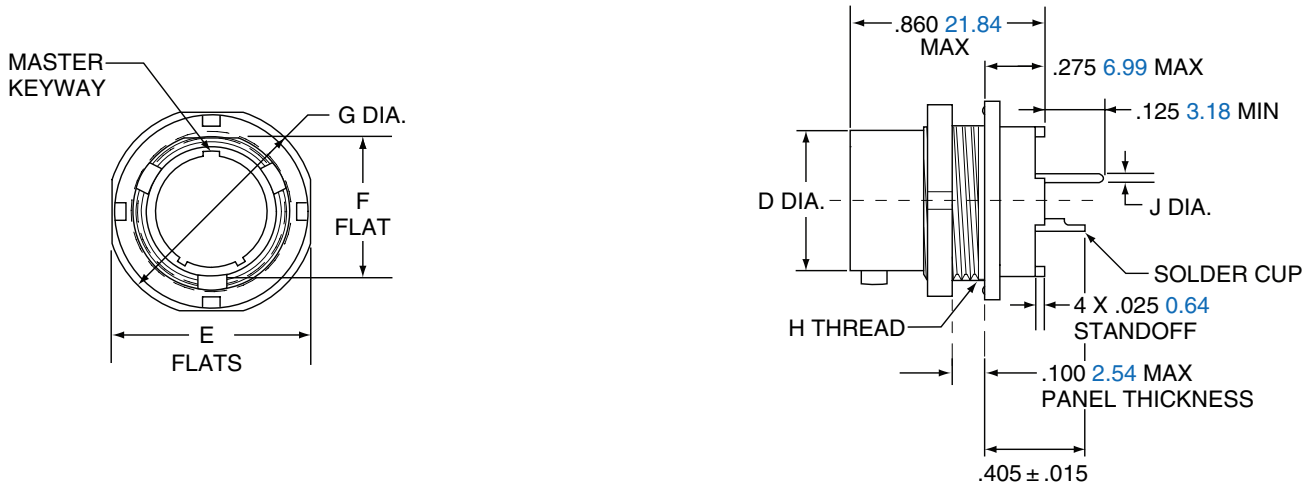


SHELL SIZE	A MAX.		B BSC.		C REF.		D DIA.		E FLATS		F FLATS		G DIA.		H THREAD	J DIA. TAIL DIA.
	IN.	MM	IN.	MM.	IN.	MM	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.		
5	.710	18.03	.513	13.03	.460	11.68	.300	7.62	.545	13.84	.350	8.89	.575	14.61	.3750-32 UNEF-2A	#23 .018/.022 0.46/0.56
6	.788	20.02	.598	15.19	.522	13.26	.362	9.19	.595	15.11	.410	10.42	.635	16.13	.4375-28 UNEF-2A	
7	.895	22.73	.708	17.98	.590	14.99	.436	11.07	.723	18.36	.536	13.61	.755	19.18	.5625-32 UN-2A	#20/20HD .025/.027 0.64/0.69
8	1.154	29.31	.964	24.49	.665	16.97	.500	12.70	.790	20.07	.593	15.10	.830	21.08	.6250-28 UN-2A	
9	1.210	30.73	1.017	25.83	.721	18.31	.561	14.25	.790	20.07	.596	15.14	.830	21.08	.6250-28 UN-2A	#16 .060/.064 1.52/1.63
10	1.291	32.79	1.101	27.97	.795	20.19	.635	16.13	.925	23.51	.721	23.49	.955	24.26	.7500-28 UN-2A	
12	1.395	35.43	1.204	30.58	.874	22.20	.714	18.14	1.044	26.52	.845	21.46	1.078	27.38	.8750-28 UN-2A	#12 .092/.096 2.34/2.44
14	1.550	39.37	1.280	32.51	1.050	26.67	.865	21.97	1.230	31.24	1.022	25.96	1.264	32.11	1.0625-20 UN-2A	
15*	-	-	-	-	-	-	.924	23.47	1.287	32.69	1.093	27.76	1.322	33.58	1.1250-28 UN-2A	

*Shell size 15 not currently available

JAM NUT RECEPTACLE PCB

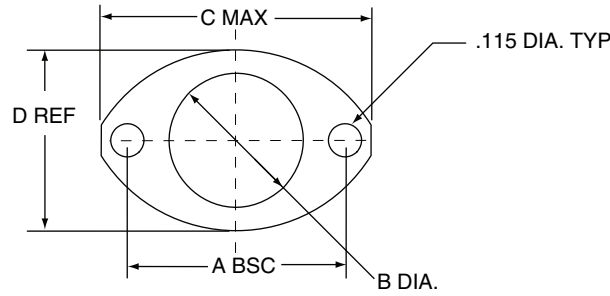
2M803-005-07



SHELL SIZE	A MAX.		B BSC.		C REF.		D DIA.		E FLATS		F FLATS		G DIA.		H THREAD	J DIA. TAIL DIA.
	IN.	MM	IN.	MM.	IN.	MM	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.		
5	.710	18.03	.513	13.03	.460	11.68	.300	7.62	.545	13.84	.350	8.89	.575	14.61	.3750-32 UNEF-2A	#23 .018/.022 0.46/0.56
6	.788	20.02	.598	15.19	.522	13.26	.362	9.19	.595	15.11	.410	10.42	.635	16.13	.4375-28 UNEF-2A	
7	.895	22.73	.708	17.98	.590	14.99	.436	11.07	.723	18.36	.536	13.61	.755	19.18	.5625-32 UN-2A	#20/20HD .025/.027 0.64/0.69
8	1.154	29.31	.964	24.49	.665	16.97	.500	12.70	.790	20.07	.593	15.10	.830	21.08	.6250-28 UN-2A	
9	1.210	30.73	1.017	25.83	.721	18.31	.561	14.25	.790	20.07	.596	15.14	.830	21.08	.6250-28 UN-2A	#16 .060/.064 1.52/1.63
10	1.291	32.79	1.101	27.97	.795	20.19	.635	16.13	.925	23.51	.721	23.49	.955	24.26	.7500-28 UN-2A	
12	1.395	35.43	1.204	30.58	.874	22.20	.714	18.14	1.044	26.52	.845	21.46	1.078	27.38	.8750-28 UN-2A	#12 .092/.096 2.34/2.44
14	1.550	39.37	1.280	32.51	1.050	26.67	.865	21.97	1.230	31.24	1.022	25.96	1.264	32.11	1.0625-20 UN-2A	
15*	-	-	-	-	-	-	.924	23.47	1.287	32.69	1.093	27.76	1.322	33.58	1.1250-28 UN-2A	

*Shell size 15 not currently available

2 HOLE FLANGED GASKETS



SHELL SIZE	PART NUMBER			A BSC.		B DIA.		C TYP.		D DIA.	
	FLUOROSILICONE	VITON®	CONDUCTIVE	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
5	2M809-108F31	2M809-108V31	2M809-108X31	0.513	13.03	0.345	8.00	0.710	18.03	0.460	11.68
6	2M809-108F32	2M809-108V32	2M809-108X32	0.598	15.19	0.405	10.29	0.795	20.19	0.522	13.26
7	2M809-108F33	2M809-108V33	2M809-108X33	0.708	17.98	0.475	12.07	0.900	22.86	0.590	14.99
8	2M809-108F34	2M809-108V34	2M809-108X34	0.964	24.51	0.545	13.84	1.160	29.46	0.670	17.02
9	2M809-108F35	2M809-108V35	2M809-108X35	1.017	25.83	0.605	15.37	1.215	30.86	0.721	18.31
10	2M809-108F36	2M809-108V36	2M809-108X36	1.101	27.97	0.682	17.32	1.295	32.89	0.795	20.19
12	2M809-108F37	2M809-108V37	2M809-108X37	1.204	30.58	0.757	19.23	1.400	35.56	0.874	22.20
14	2M809-108F38	2M809-108V38	2M809-108X38	1.280	32.51	0.910	23.11	1.555	39.50	1.050	26.67
15	2M809-108F39	2M809-108V39	2M809-108X39	1.370	34.80	.970	24.64	1.640	41.66	1.150	29.21

SHRINK BOOTS FOR INTEGRAL ENDBELL

High-Performance Elastomer

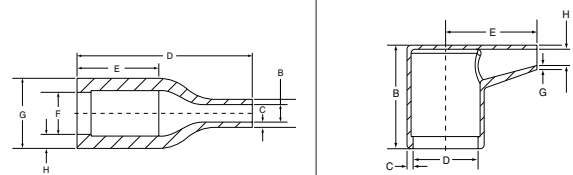
Pre-Coated with high-temperature adhesive

- Operating temperature -94 F to +302 F (-70 C to +150 C)
- Rated for 3000 hours of continuous operation at +302 F (+150 C)
- Excellent resistance to fuels, oils, and solvents
- Spec VG95343 Part 6

Zero-Halogen

Low-Smoke, Zero-Halogen Toxicity Requirements

- Meets U.S. and E.U. standards
- Pre-coated with high-temperature adhesive
- Operating temperature -22 F to +257 F (-30 C to +125 C)
- Good resistance to fuels, oils, and solvents
- Spec NAVSEA 5617649



BOOT SIZE	SHELL SIZE	HIGH-PERFORMANCE ELASTOMER		ZERO-HALOGEN		STRAIGHT BOOT CABLE RANGE		MIN.		RIGHT ANGLE BOOT CABLE RANGE		MIN.	
		STRAIGHT	RIGHT ANGLE	STRAIGHT	RIGHT ANGLE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	5	2M809S060-1	2M809A060-1	2M809S060-1H	2M809A060-1H *	0.350	9.0	0.080	2.0	0.240	6.0	0.080	2.0
2	6, 7	2M809S060-2	2M809A060-2	2M809S060-2H	2M809A060-2H	0.650	16.5	0.150	3.8	0.650	16.5	0.100	2.5
3	8, 9	2M809S060-3	2M809A060-3	2M809S060-3H	2M809A060-3H	0.920	23.4	0.220	5.6	0.920	23.3	0.220	5.6
4	10, 12	2M809S060-4	2M809A060-4	2M809S060-4H	2M809A060-4H	1.120	28.4	0.260	6.6	1.120	28.5	0.250	6.3
5	14,15	2M809S060-5	2M809A060-5	2M809S060-5H	2M809A060-5H	1.220	31.0	0.280	7.1	1.220	30.9	0.280	7.1

* Size 1 zero-halogen right-angle supplied less lip, see graphic

DUSTCAPS



SHELL SIZE FOR 2M803	METAL DUSTCAPS WITH NYLON ROPE LANYARD		
	FOR PLUGS WITH RING ATTACHMENT	FOR FLANGED RECEPTACLES WITH RING ATTACHMENT	FOR JAM NUT RECEPTACLES WITH LARGE RING ATTACHMENT
5	2M660-082-XX-G502-4	2M660-083-XX-G501-3	2M660-083-XX-G514-4
6	2M660-082-XX-G602-4	2M660-083-XX-G601-3	2M660-083-XX-G615-4
7	2M660-082-XX-G702-4	2M660-083-XX-G701-3	2M660-083-XX-G716-4
8	2M660-082-XX-G802-4	2M660-083-XX-G801-3	2M660-083-XX-G817-4
9	2M660-082-XX-G902-4	2M660-083-XX-G902-3	2M660-083-XX-G918-4
10	2M660-082-XX-G1002-5	2M660-083-XX-G1002-3	2M660-083-XX-G1019-4
12	2M660-082-XX-G1202-5	2M660-083-XX-G1202-3	2M660-083-XX-G1219-4
14	2M660-082-XX-G1402-6	2M660-083-XX-G1402-3	2M660-083-XX-G1420-4
15	2M660-082-XX-G1602-6	2M660-083-XX-G1502-3	2M660-083-XX-G1520-4

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** Aluminum/ Electroless Nickel (RoHS)
- NF** Aluminum/ Cadmium with Olive Drab Chromate
- MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)

- Z1** Stainless Steel/ Passivated
 - ZM** Stainless Steel/ Electroless Nickel (RoHS)
 - ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
 - ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)
- REPLACE XX WITH PLATING CODE**

STRAIN RELIEF CABLE CLAMP WITH ROTATABLE COUPLING

SHELL SIZE	PART NUMBER	THREAD SIZE 2B	CABLE ENTRY DIA.
5	2M620MS065-XX05	.2500-32 UNEF	0.11
6	2M620MS065-XX06	.3125-32 UNEF	0.17
7	2M620MS065-XX07	.4375-28 UNEF	0.23
8	2M620MS065-XX08	.5000-28 UNEF	0.30
9	2M620MS065-XX09	.5625-24 UNEF	0.30
10	2M620MS065-XX10	.6250-24 UNEF	0.36
12	2M620MS065-XX12	.6875-24 UNEF	0.42
14	2M620MS065-XX14	.9375-20 UNEF	0.48
15	2M620MS065-XX15	.9375-20 UNEF	0.61

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
 - M** Aluminum/ Electroless Nickel (RoHS)
 - NF** Aluminum/ Cadmium with Olive Drab Chromate
 - MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)
 - Z1** Stainless Steel/ Passivated
 - ZM** Stainless Steel/ Electroless Nickel (RoHS)
 - ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
 - ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)
- REPLACE XX WITH PLATING CODE**

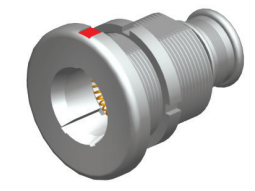
ADDITIONAL BACKSHELLS

	DESCRIPTION	PART NUMBER PREFIX	STRAIGHT	90°	45°
	Thread-On BAND-IT Adapter	2M440MS135	X		
		2M440ML135		X	
		2M440MK135			X
	Low-Profile BAND-IT Adapter	2M440MS134	X		
	Environmental Backshell	2M370MS038	X		
		2M370MA038		X	
		2M370MB038			X
	EMI Backshell	2M380MS137	X		
		2M380MA137		X	
		2M380MB137			X
	Environmental EMI Backshell	2M390MS077	X		
		2M390MA077		X	
		2M390MB077			X

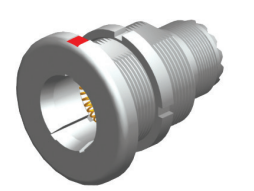
CREATE YOUR PART NUMBER 2M804 PUSH-PULL QUICK DISCONNECT

1	2	3	4	5	6
2M804-003-07	NF	8-13	P	A	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE



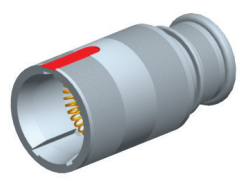
2M804-003-00
Front Mount Jam Nut with Integral Backshell



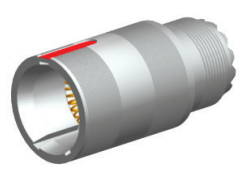
2M804-004-00
Front Mount Jam Nut with Rear Accessory Threads



2M804-001-06
Plug with Integral Backshell



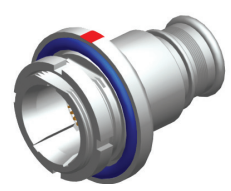
2M804-003-01
In-Line with Integral Backshell



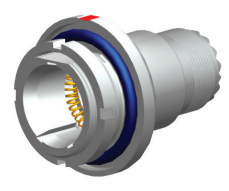
2M804-004-01
In-Line with Rear Accessory Threads



2M804-002-06
Plug with Rear Accessory Thread



2M804-003-07*
Rear Mount Jam Nut with Integral Backshell



2M804-004-07*
Rear Mount Jam Nut with Rear Accessory Threads

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS



- C** = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** = Aluminum/ Electroless Nickel (RoHS)
- NF** = Aluminum/ Cadmium with Olive Drab Chromate
- MT** = Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** = Stainless Steel/ Passivated
- ZM** = Stainless Steel/ Electroless Nickel (RoHS)
- ZN** = Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

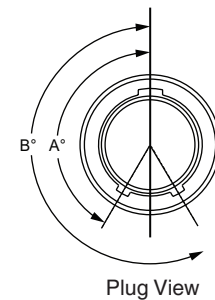
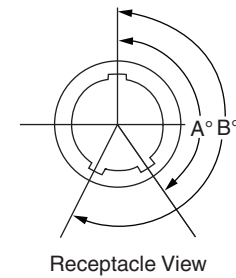
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
12-2	2					2
12-3	3					3
12-7	7				7	
12-37	37	37				
12-200	8	6				2
12-201	12	10				2
12-220	20			20		
14-5	5					5
14-12	12				12	
14-55	55	55				
14-235	35			35		
15-7	7					7
15-14	14				14	
15-85	85	85				

STEP 4: SELECT CONTACT

- P** = Pin
- S** = Socket
- A** = Less pin contacts
- B** = Less socket contacts

STEP 5: SELECT KEYING

OMIT FOR NORMAL	A KEYWAY DEGREE	B KEYWAY DEGREE
	SINGLE MASTER KEYWAY	
A	150	210
B	75	210
C	95	230
D	140	275



STEP 6: SELECT MODIFIER*

-501 = Hex nut supplied

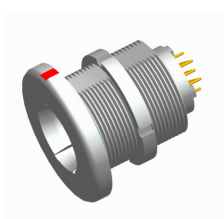
Blank = Default Spanner Nut supplied

*For Jam nut type only

1	2	3	4	5	6
2M804-005-07	NF	8-13	P	A	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

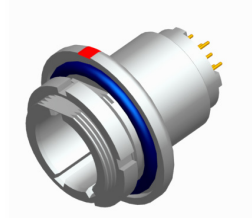
STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES



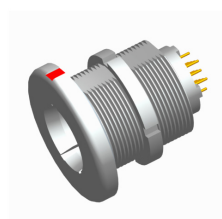
2M804-005-02

Front Mount Jam Nut for Solder Cup or PCB Termination with Standard Epoxy Potting



2M804-005-07*

Rear Mount Jam nut for Jam Nut with Solder Cup or PCB Termination with Epoxy Potting



2M804-020-02

Front Mount Jam Nut for Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1×10^{-4} cc/sec. pressure differential from -65°C to 150°C .



2M804-020-07*

Rear Mount Jam nut for Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1×10^{-4} cc/sec. pressure differential from -65°C to 150°C .

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS

C = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
M = Aluminum/ Electroless Nickel (RoHS)
NF = Aluminum/ Cadmium with Olive Drab Chromate
MT = Aluminum/ Nickel-PTFE(Durmalon) (RoHS)

Z1 = Stainless Steel/ Passivated
ZM = Stainless Steel/ Electroless Nickel (RoHS)
ZN = Aluminum/ Zinc-Nickel with Olive Drab Chromate
ZNU = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

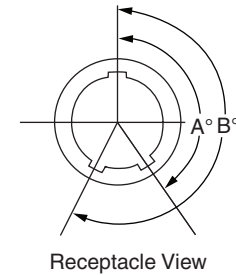
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
12-2	2					2
12-3	3					3
12-7	7				7	
12-37	37	37				
12-200	8	6				2
12-201	12	10				2
12-220	20			20		
14-5	5					5
14-12	12				12	
14-55	55	55				
14-235	35			35		
15-7	7					7
15-14	14				14	
15-85	85	85				

STEP 4: SELECT CONTACT

- P** = Pin - PCB
- S** = Socket - PCB
- E** = Pin - Solder Cup
- F** = Socket - Solder Cup

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
N	150	210
X	75	210
Y	95	230
Z	140	275

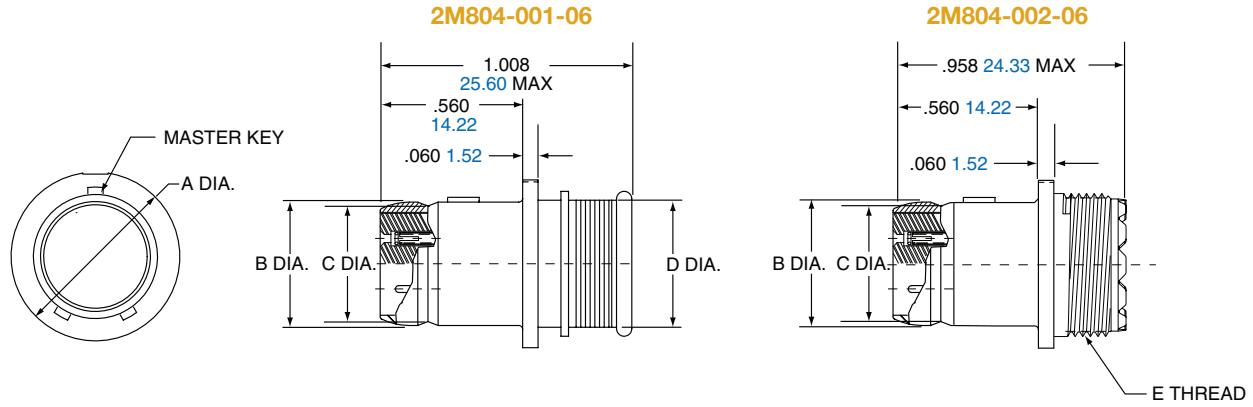


STEP 6: SELECT MODIFIER*

- Blank** = Default spanner nut supplied
- 501** = Hex nut supplied

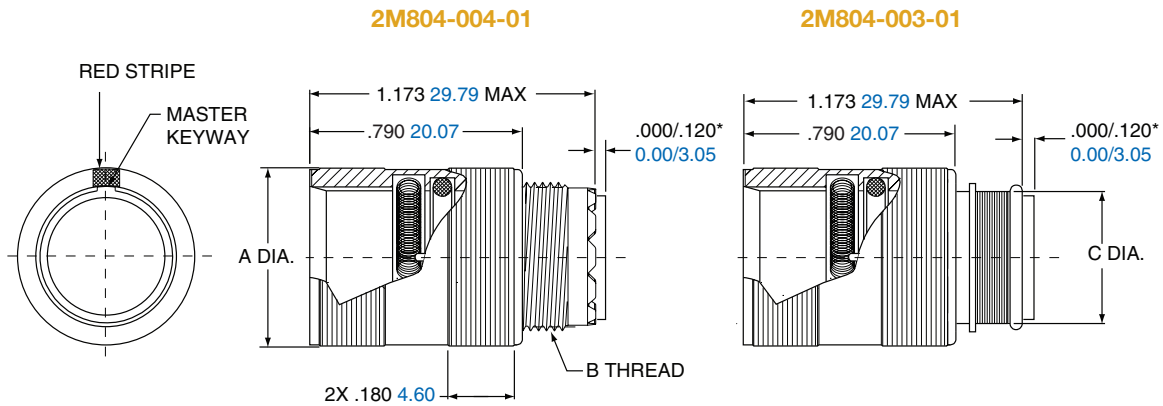
*For Jam nut type only

PLUG



SHELL SIZE	A DIA.		B DIA.		C DIA.		D DIA.		E THREAD
	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	
5	.418	10.62	.245	6.22	.218	5.54	.248	6.30	.2500-32 UNEF-2A
6	.488	12.40	.310	7.87	.275	6.99	.293	7.44	.3125-32 UNEF-2A
7	.561	14.25	.378	9.60	.350	8.89	.388	9.86	.4375-28 UNEF-2A
8	.603	15.32	.426	10.82	.395	10.03	.448	11.38	.5000-28 UNEF-2A
9	.663	16.84	.482	12.24	.450	11.43	.503	12.78	.5625-24 UNEF-2A
10	.743	18.87	.555	14.10	.525	13.34	.563	14.30	.6250-24 UNEF-2A
12	.851	21.62	.672	17.07	.642	16.31	.653	16.59	.6875-24 UNEF-2A
14	.978	24.84	.795	20.19	.761	19.33	.803	20.40	.9375-20 UNEF-2A
15	1.038	26.37	.863	21.92	.837	21.26	.853	21.67	.9375-20 UNEF-2A

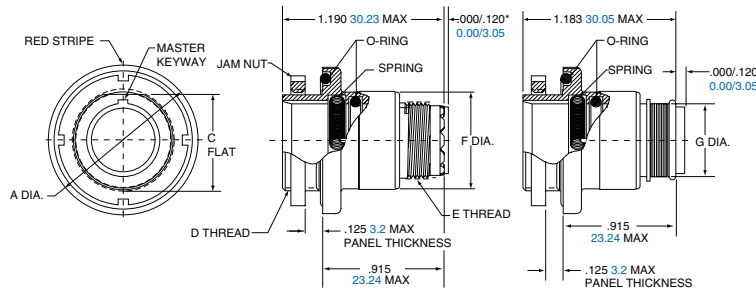
IN-LINE RECEPTACLE



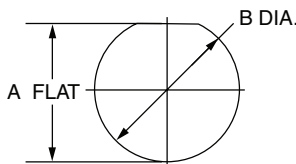
SHELL SIZE	A DIA.		B THREAD	C DIA.	
	IN.	MM.		IN.	MM.
5	0.453	11.51	.2500-32 UNEF-2A	0.248	6.30
6	0.523	13.28	.3125-32 UNEF-2A	0.293	7.44
7	0.583	14.81	.4375-28 UNEF-2A	0.388	9.86
8	0.606	15.39	.5000-28 UNEF-2A	0.448	11.38
9	0.698	17.73	.5625-24 UNEF-2A	0.503	12.78
10	0.738	18.75	.6250-24 UNEF-2A	0.563	14.30
12	0.883	22.43	.6875-24 UNEF-2A	0.653	16.59
14	1.013	25.73	.9375-20 UNEF-2A	0.803	20.40
15	1.061	26.95	.9375-20 UNEF-2A	0.853	21.67

REAR MOUNT JAM NUT

2M804-004-07
2M804-003-07



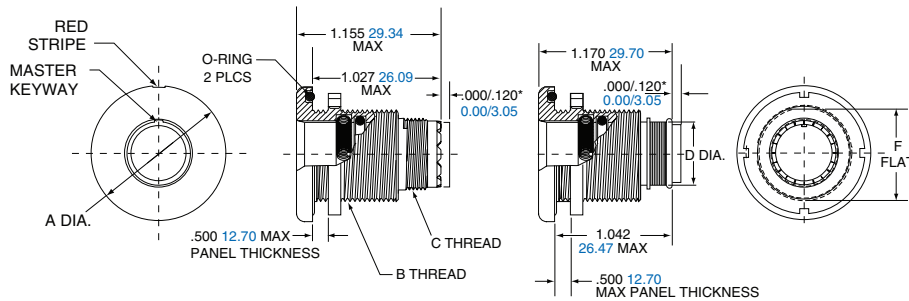
SHELL SIZE	A DIA.		C FLAT		D THREAD	E THREAD	F DIA.		G DIA.	
	IN.	MM.	IN.	MM.			IN.	MM.	IN.	MM.
5	.773	19.63	.414	10.52	.4375-32 UN-2A	.2500-32 UNEF-2A	.448	11.38	.248	6.30
6	.833	21.16	.468	11.89	.5000-32 UN-2A	.3125-32 UNEF-2A	.513	13.03	.293	7.44
7	.903	22.94	.593	15.06	.6250-28 UN-2A	.4375-28 UNEF-2A	.573	14.55	.388	9.86
8	.958	24.33	.593	15.06	.6250-28 UN-2A	.5000-28 UNEF-2A	.596	15.14	.448	11.38
9	.998	25.35	.653	16.59	.6875-28 UN-2A	.5625-24 UNEF-2A	.691	17.55	.503	12.78
10	1.083	27.51	.721	18.31	.7500-28 UN-2A	.6250-24 UNEF-2A	.728	18.49	.563	14.30
12	1.183	30.05	.843	21.41	.8750-28 UN-2A	.6875-24 UNEF-2A	.883	22.43	.653	16.59
14	1.323	33.60	.968	24.59	1.0000-28 UN-2A	.9375-20 UNEF-2A	1.003	25.48	.803	20.40
15	1.373	34.87	1.036	26.31	1.0625-20 UN-2A	.9375-20 UNEF-2A	1.063	27.00	.853	21.67



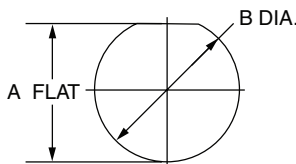
SHELL SIZE	REAR MOUNT JAM NUT PANEL CUTOUT			
	A FLAT		B DIA.	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
5	0.423	10.74	0.448	11.38
6	0.475	12.07	0.510	12.95
7	0.602	15.29	0.635	16.13
8	0.602	15.29	0.635	16.13
9	0.663	16.84	0.698	17.73
10	0.729	18.82	0.760	19.30
12	0.851	21.62	0.885	22.48
14	0.976	24.79	1.010	25.65
15	1.043	26.49	1.073	27.25

FRONT MOUNT JAM NUT

2M804-004-00
2M804-003-00



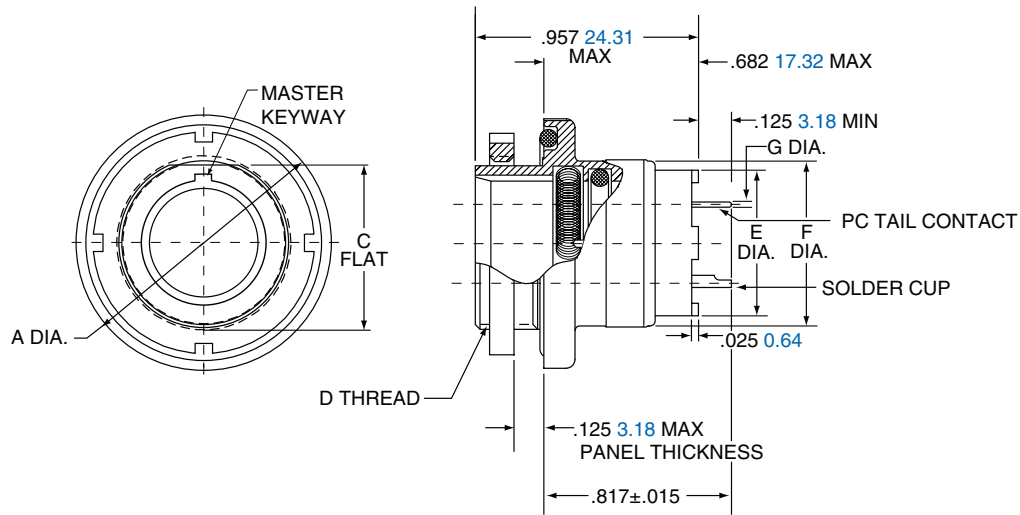
SHELL SIZE	A DIA.		B THREAD	C THREAD	D DIA.		F FLAT.	
	IN.	MM.			IN.	MM.	IN.	MM.
5	.830	21.08	.5000-32 UN-2A	.2500-32 UNEF-2A	.248	6.30	.470	11.94
6	.884	22.45	.5625-32 UN-2A	.3125-32 UNEF-2A	.293	7.44	.529	13.44
7	.994	25.25	.6875-28 UN-2A	.4375-28 UNEF-2A	.388	9.86	.663	16.84
8	.994	25.25	.6875-28 UN-2A	.5000-28 UNEF-2A	.448	11.38	.663	16.84
9	1.073	27.25	.7500-28 UN-2A	.5625-24 UNEF-2A	.503	12.78	.719	18.26
10	1.138	28.91	.8125-28 UN-2A	.6250-24 UNEF-2A	.563	14.30	.778	19.76
12	1.338	33.96	1.0000-28 UN-2A	.6875-24 UNEF-2A	.653	16.59	.969	24.61
14	1.388	35.26	1.0625-20 UN-2A	.9375-20 UNEF-2A	.803	20.40	1.019	25.88
15	1.453	36.91	1.1250-28 UN-2A	.9375-20 UNEF-2A	.853	21.67	1.113	28.27



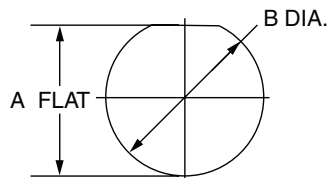
SHELL SIZE	FRONT MOUNT JAM NUT PANEL CUTOUT			
	A FLAT		B DIA.	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
5	0.477	12.12	0.510	12.95
6	0.537	13.64	0.573	14.55
7	0.670	17.02	0.698	17.73
8	0.670	17.02	0.698	17.73
9	0.727	18.47	0.760	19.30
10	0.787	20.19	0.823	20.90
12	0.977	24.82	1.010	25.65
14	1.027	26.09	1.073	27.25
15	1.121	28.47	1.135	28.83

REAR PANEL JAM NUT RECEPTACLE PCB

2M804-005-07
2M804-020-07



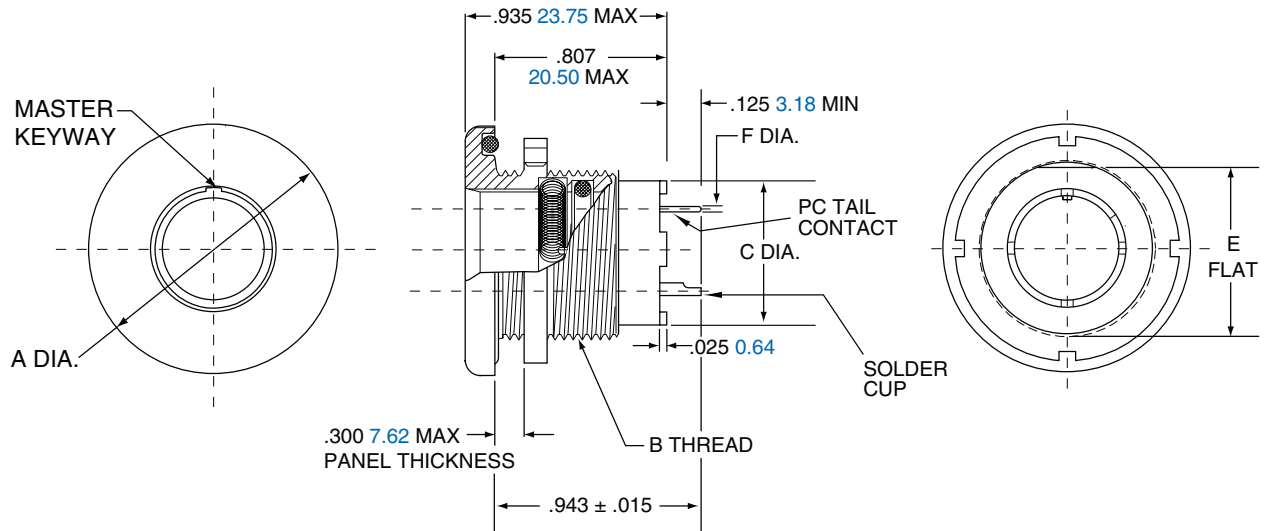
SHELL SIZE	A DIA.		C FLAT		D THREAD	E DIA.		F DIA.		G PC TAIL DIA.
	IN.	MM.	IN.	MM.		IN.	MM.	IN.	MM.	
5	.773	19.63	.414	10.52	.4375-32 UN-2A	.274	6.96	.448	11.38	#23
6	.833	21.16	.468	11.89	.5000-32 UN-2A	.329	8.36	.513	13.03	.018/.022 0.46/0.56
7	.903	22.94	.593	15.06	.6250-28 UN-2A	.431	10.95	.573	14.55	#20/20HD
8	.958	24.33	.593	15.06	.6250-28 UN-2A	.493	12.52	.596	15.14	.025/.027 0.64/0.69
9	.998	25.35	.653	16.59	.6875-28 UN-2A	.551	14.00	.691	17.55	#16
10	1.083	27.51	.721	18.31	.7500-28 UN-2A	.619	15.72	.728	18.49	.060/.064 1.52/1.63
12	1.183	30.05	.843	21.41	.8750-28 UN-2A	.703	17.86	.883	22.43	#12
14	1.323	33.60	.968	24.59	1.0000-28 UN-2A	.863	21.92	1.003	25.48	.092/.096 2.34/2.44
15	1.373	34.87	1.036	26.31	1.0625-20 UN-2A	.913	23.19	1.063	27.00	



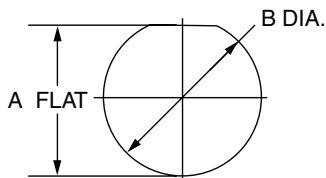
SHELL SIZE	A FLAT		B DIA.	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65
15	1.043	26.49	1.073	27.25

REAR PANEL JAM NUT RECEPTACLE PCB

2M804-005-00
2M804-020-00



SHELL SIZE	A DIA.		B THREAD	C DIA.		E FLAT.		F DIA. TAIL DIA.
	IN.	MM.		IN.	MM.	IN.	MM.	
5	.830	21.08	.5000-32 UN-2A	.274	6.96	.470	11.94	#23 .018/.022 0.46/0.56
6	.884	22.45	.5625-28 UN-2A	.329	8.36	.529	13.44	
7	.994	25.25	.6875-28 UN-2A	.431	10.95	.663	16.84	
8	.994	25.25	.6875-28 UN-2A	.493	12.52	.663	16.84	
9	1.073	27.25	.7500-28 UN-2A	.551	14.00	.719	18.26	
10	1.138	28.91	.8125-28 UN-2A	.619	15.72	.778	19.76	
12	1.338	33.99	1.0000-28 UN-2A	.703	17.86	.969	24.61	
14	1.388	35.26	1.0625-20 UN-2A	.863	21.92	1.019	25.88	
15	1.453	36.91	1.1250-28 UN-2A	.913	23.19	1.113	28.27	#16 .060/.064 1.52/1.63
								#12 .092/.096 2.34/2.44



SHELL SIZE	JAM NUT PANEL CUTOUT			
	A FLAT		B DIA.	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
5	.477	12.12	.510	12.95
6	.537	13.64	.573	14.55
7	.670	17.02	.698	17.73
8	.670	17.02	.698	17.73
9	.727	18.47	.760	19.30
10	.787	20.00	.823	20.90
12	.977	24.82	1.010	25.65
14	1.027	26.10	1.073	27.75
15	1.121	28.47	1.135	28.83

SHRINK BOOTS FOR INTEGRAL ENDBELL

High Performance Elastomer

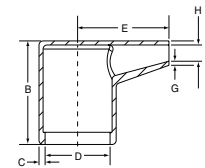
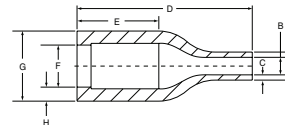
Pre-Coated with high-temperature adhesive

- Operating temperature -94 F to +302 F (-70 C to +150 C)
- Rated for 3000 hours of continuous operation at +302 F (+150 C)
- Excellent resistance to fuels, oils, and solvents
- Spec VG95343 Part 6

Zero Halogen

Low-Smoke, Zero-Halogen Toxicity Requirements

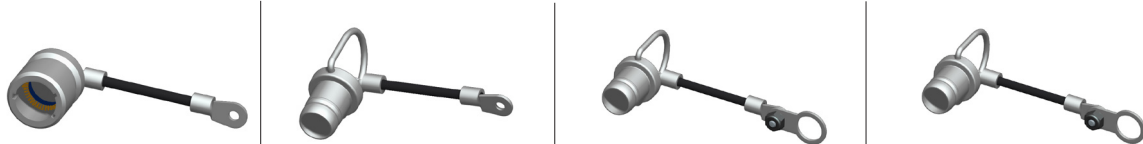
- Meets U.S. and E.U. standards
- Pre-coated with high-temperature adhesive
- Operating temperature -22 F to +257 F (-30 C to +125 C)
- Good resistance to fuels, oils, and solvents
- Spec NAVSEA 5617649



BOOT SIZE	SHELL SIZE	HIGH-PERFORMANCE ELASTOMER				ZERO-HALOGEN				STRAIGHT BOOT CABLE RANGE		RIGHT ANGLE BOOT CABLE RANGE	
		STRAIGHT		RIGHT ANGLE		STRAIGHT		RIGHT ANGLE		MAX.	MIN.	MAX.	MIN.
		IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
1	5	2M809S060-1	2M809A060-1	2M809S060-1H	2M809A060-1H *	0.350	9.0	0.080	2.0	0.240	6.0	0.080	2.0
2	6, 7	2M809S060-2	2M809A060-2	2M809S060-2H	2M809A060-2H	0.650	16.5	0.150	3.8	0.650	16.5	0.100	2.5
3	8, 9	2M809S060-3	2M809A060-3	2M809S060-3H	2M809A060-3H	0.920	23.4	0.220	5.6	0.920	23.3	0.220	5.6
4	10, 12	2M809S060-4	2M809A060-4	2M809S060-4H	2M809A060-4H	1.120	28.4	0.260	6.6	1.120	28.5	0.250	6.3
5	14	2M809S060-5	2M809A060-5	2M809S060-5H	2M809A060-5H	1.220	31.0	0.280	7.1	1.220	30.9	0.280	7.1

* Size 1 Zero-halogen right-angle supplied less lip, see graphic

METAL DUSTCAPS



SHELL SIZE FOR 2M804	METAL DUSTCAPS WITH NYLON ROPE LANYARD			
	FOR PLUGS WITH RING ATTACHMENT	FOR FLANGED RECEPTACLES WITH RING ATTACHMENT	FOR JAM NUT RECEPTACLES REAR MOUNT WITH LARGE RING ATTACHMENT	FOR JAM NUT RECEPTACLES FRONT MOUNT WITH LARGE RING ATTACHMENT
5	2M809-198-XX5-G02-4	2M667-202-XX5-G01-3R	2M667-202-XX5-G14-4R	2M667-202-XX5-G16-4R
6	2M809-198-XX6-G02-4	2M667-202-XX6-G01-3R	2M667-202-XX6-G15-4R	2M667-202-XX6-G16-4R
7	2M809-198-XX7-G02-4	2M667-202-XX7-G01-3R	2M667-202-XX7-G16-4R	2M667-202-XX7-G18-4R
8	2M809-198-XX8-G02-4	2M667-202-XX8-G01-3R	2M667-202-XX8-G16-4R	2M667-202-XX8-G18-4R
9	2M809-198-XX9-G02-4	2M667-202-XX9-G02-3R	2M667-202-XX9-G17-4R	2M667-202-XX9-G19-4R
10	2M809-198-XX10-G02-5	2M667-202-XX10-G02-3R	2M667-202-XX10-G18-4R	2M667-202-XX10-G19-4R
12	2M809-198-XX12-G02-5	2M667-202-XX12-G02-3R	2M667-202-XX12-G19-4R	2M667-202-XX12-G20-4R
14	2M809-198-XX14-G02-6	2M667-202-XX14-G02-3R	2M667-202-XX14-G20-4R	2M667-202-XX14-G20-4R

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** Aluminum/ Electroless Nickel (RoHS)
- NF** Aluminum/ Cadmium with Olive Drab Chromate
- MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)

- Z1** Stainless Steel/ Passivated
- ZM** Stainless Steel/ Electroless Nickel (RoHS)
- ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

REPLACE XX WITH PLATING CODE

RUBBER DUSTCAPS



SHELL SIZE FOR 2M804	RUBBER NON-CONDUCTIVE DUSTCAPS WITH NYLON ROPE LANYARD		
	FOR PLUG WITH RING ATTACHMENT	FOR FLANGED RECEPTACLE WITH RING ATTACHEMENT	FOR JAM NUT RECEPTACLES FRONT MOUNT WITH LARGE RING ATTACHMENT
5	2M809-083-5G4-02	2M809-087-5G4-15	2M809-087-5G4-08
6	2M809-083-6G4-02	2M809-087-6G4-08	2M809-087-6G4-16
7	2M809-083-7G4-02	2M809-087-7G4-17	2M809-087-7G4-18
8	2M809-083-8G4-02	2M809-087-8G4-17	2M809-087-8G4-18
9	2M809-083-9G4-02	2M809-087-9G4-18	2M809-087-9G4-10
10	2M809-083-10G5-02	2M809-087-10G4-10	2M809-087-10G4-25
12	2M809-083-12G5-02	2M809-087-12G4-19	2M809-087-12G4-12
14	2M809-083-14G6-02	2M809-087-14G4-12	2M809-087-14G4-20

STRAIN RELIEF CABLE CLAMP WITH ROTATABLE COUPLING

SHELL SIZE	PART NUMBER	THREAD SIZE 2B	CABLE ENTRY DIA.
5	2M620MS065-XX05	.2500-32 UNEF	0.11
6	2M620MS065-XX06	.3125-32 UNEF	0.17
7	2M620MS065-XX07	.4375-28 UNEF	0.23
8	2M620MS065-XX08	.5000-28 UNEF	0.30
9	2M620MS065-XX09	.5625-24 UNEF	0.30
10	2M620MS065-XX10	.6250-24 UNEF	0.36
12	2M620MS065-XX12	.6875-24 UNEF	0.42
14	2M620MS065-XX14	.9375-20 UNEF	0.48

C Aluminum/ Black Anodize (Non-Conductive) (RoHS)

M Aluminum/ Electroless Nickel (RoHS)

NF Aluminum/ Cadmium with Olive Drab Chromate

MT Aluminum/ Nickel-PTFE (Duralon) (RoHS)

Z1 Stainless Steel/ Passivated

ZM Stainless Steel/ Electroless Nickel (RoHS)

ZN Aluminum/ Zinc-Nickel with Olive Drab Chromate

ZNU Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

REPLACE **XX** WITH PLATING CODE

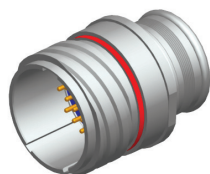
ADDITIONAL BACKSHELLS

	DESCRIPTION	PART NUMBER PREFIX	STRAIGHT	90°	45°
	Thread-On BAND-IT Adapter	2M440MS135	X		
		2M440ML135		X	
		2M440MK135			X
	Low-Profile BAND-IT Adapter	2M440MS134	X		
	Environmental Backshell	2M370MS038	X		
		2M370MA038		X	
		2M370MB038			X
	EMI Backshell	2M380MS137	X		
		2M380MA137		X	
		2M380MB137			X
	Environmental EMI Backshell	2M390MS077	X		
		2M390MA077		X	
		2M390MB077			X

1	2	3	4	5	6
2M805-003-07	NF	8-23	P	A	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES ← Mates with → PLUGS



2M805-003-01

In-Line with
Integral Backshell



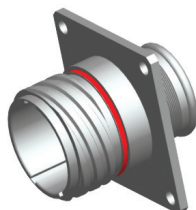
2M805-004-01

In-Line with
Rear Accessory Threads



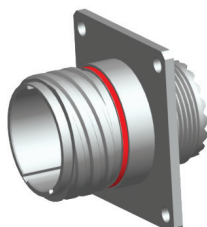
2M805-001-16

Plug with Integral Backshell
Anti-Decoupling Spring



2M805-003-02

Square Flange with
Integral Backshell



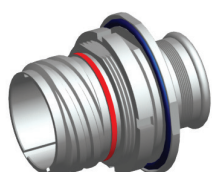
2M805-004-02

Square Flange with
Rear Accessory Threads



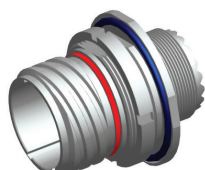
2M805-002-16

Plug with Rear Accessory Thread
Anti-Decoupling Spring



2M805-003-07*

Jam Nut with
Integral Backshell



2M805-004-07*

Jam Nut with
Rear Accessory Threads

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS

- C** = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** = Aluminum/ Electroless Nickel (RoHS)
- NF** = Aluminum/ Cadmium with Olive Drab Chromate
- MT** = Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** = Stainless Steel/ Passivated
- ZM** = Stainless Steel/ Electroless Nickel (RoHS)
- ZN** = Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

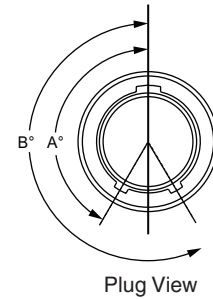
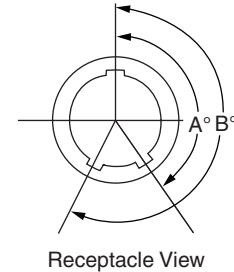
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
8-1	1				1	
8-4	4	4				
8-6	6	6				
8-7	7	7				
8-23	3			3		
9-1	1					1
9-10	10	10				
9-25	5			5		
10-2	2				2	
10-13	13	13				
10-28	8			8		
10-200	6	4	2			
11-4	4				4	
11-19	19	19				
11-200	6	4			2	
11-201	10	8	2			
11-210	10			10		
12-2	2					2
12-5	5				5	
12-26	26	26				
12-200	13	12				1
12-201	6	4				2
12-202	10	8			2	
15-2	2					2
15-3	3					3
15-7	7				7	
15-37	37	37				
15-200	8	6				2
15-201	12	10				2
15-220	20			20		
18-5	5					5
18-12	12				12	
18-55	55	55				
18-235	35			35		
19-7	7					7
19-14	14				14	
19-85	85	85				
19-241	41			41		
23-12	12					12
23-22	22				22	
23-130	130	130				
23-269	69			69		

STEP 4: SELECT CONTACT

- P** = Pin
- S** = Socket
- A** = Less pin contacts
- B** = Less socket contacts

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
A	150	210
B	75	210
C	95	230
D	140	275



STEP 6: SELECT MODIFIER*

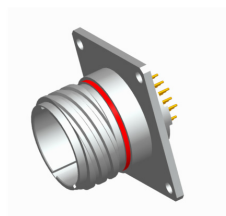
- Blank** = Default spanner nut supplied
- 501** = Hex nut supplied

*For Jam nut type only

1	2	3	4	5	6
2M805-005-07	NF	8-13	P	A	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

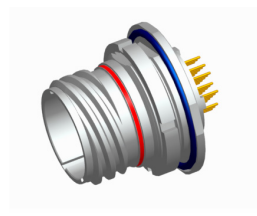
STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

RECEPTACLES



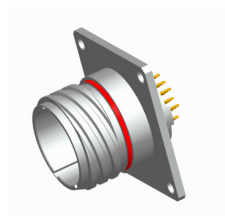
2M805-005-02

Square Flange with Solder Cup or PCB Termination with Standard Epoxy Potting



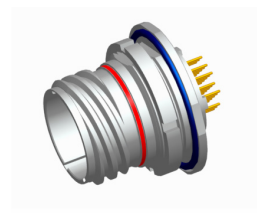
2M805-005-07*

Jam Nut with Solder Cup or PCB Termination with Epoxy Potting



2M805-017-02

Square Flange with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1x10⁻⁴ cc/sec. pressure differential from -65°C to 150°C.



2M805-017-07*

Jam nut with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1x10⁻⁴ cc/sec. pressure differential from -65°C to 150°C.

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT CLASS



C = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
M = Aluminum/ Electroless Nickel (RoHS)
NF = Aluminum/ Cadmium with Olive Drab Chromate
MT = Aluminum/ Nickel-PTFE(Durmalon) (RoHS)

Z1 = Stainless Steel/ Passivated
ZM = Stainless Steel/ Electroless Nickel (RoHS)
ZN = Aluminum/ Zinc-Nickel with Olive Drab Chromate
ZNU = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

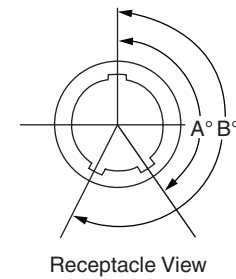
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
8-1	1				1	
8-4	4	4				
8-6	6	6				
8-7	7	7				
8-23	3			3		
9-1	1					1
9-10	10	10				
9-25	5			5		
10-2	2				2	
10-13	13	13				
10-28	8			8		
10-200	6	4	2			
11-4	4				4	
11-19	19	19				
11-200	6	4			2	
11-201	10	8	2			
11-210	10			10		
12-2	2					2
12-5	5				5	
12-26	26	26				
12-200	13	12				1
12-201	6	4				2
12-202	10	8			2	
15-2	2					2
15-3	3					3
15-7	7				7	
15-37	37	37				
15-200	8	6				2
15-201	12	10				2
15-220	20			20		
18-5	5					5
18-12	12				12	
18-55	55	55				
18-235	35			35		
19-7	7					7
19-14	14				14	
19-85	85	85				
19-241	41			41		
23-12	12					12
23-22	22				22	
23-130	130	130				
23-269	69			69		

STEP 4: SELECT CONTACT

- P** = Pin - PCB
- S** = Socket - PCB
- E** = Pin - Solder Cup
- F** = Socket - Solder Cup

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
A	150	210
B	75	210
C	95	230
D	140	275



STEP 6: SELECT MODIFIER*

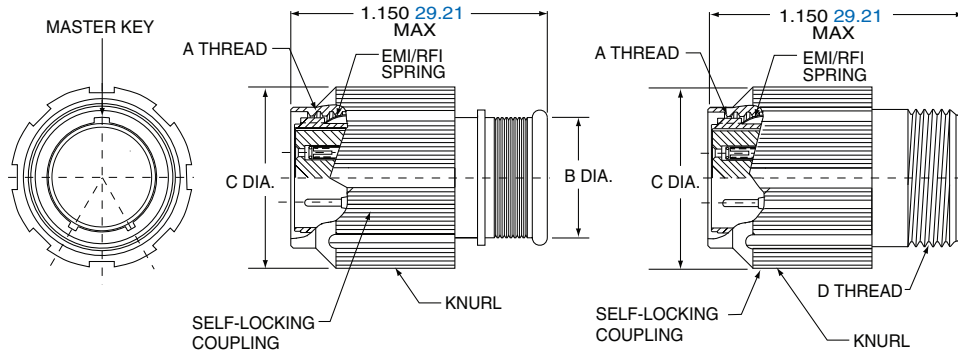
- Blank** = Default spanner nut supplied
- 501** = Hex nut supplied

*For Jam nut type only

PLUG

2M805-001

2M805-002

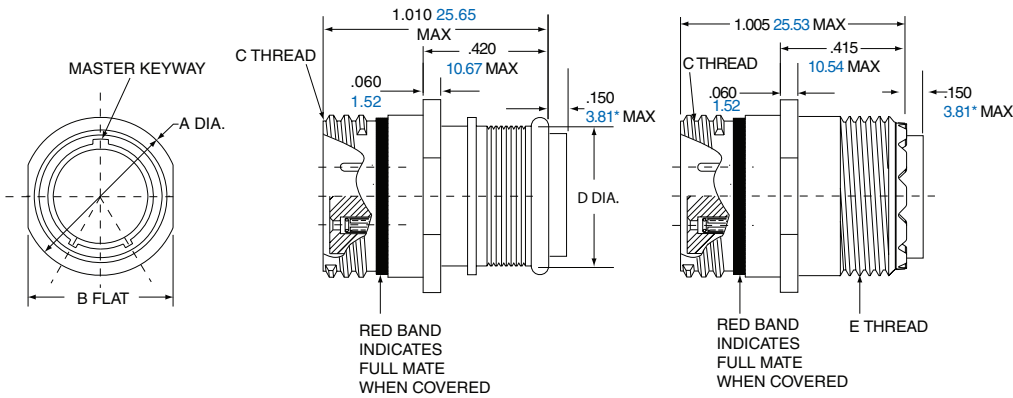


SHELL SIZE	A THREADS	B DIA.		C DIA.		D THREADS ACCESSORY
		IN.	MM.	IN.	MM.	
8	.5000-.1P-.3L-TS-2B	.317	8.05	.691	17.55	.3750-32 UNEF-2A
9	.5625-.1P-.3L-TS-2B	.397	10.08	.787	19.99	.4375-28 UNEF-2A
10	.6250-.1P-.3L-TS-2B	.473	12.01	.826	20.98	.5000-28 UNEF-2A
11	.6875-.1P-.3L-TS-2B	.519	13.18	.925	23.50	.5625-24 UNEF-2A
12	.7500-.1P-.3L-TS-2B	.585	14.86	.982	24.94	.6250-24 UNEF-2A
15	.9375-.1P-.3L-TS-2B	.687	17.45	1.105	28.07	.7500-20 UNEF-2A
18	1.1250-.1P-.3L-TS-2B	.884	22.45	1.275	32.39	.9375-20 UNEF-2A
19	1.1875-.1P-.3L-TS-2B	.884	22.45	1.310	33.27	.9375-20 UNEF-2A
23	1.4375-.1P-.3L-TS-2B	1.135	28.83	1.562	39.67	1.1875-18 UNEF-2A

IN-LINE RECEPTACLE

2M805-003-01

2M805-004-01

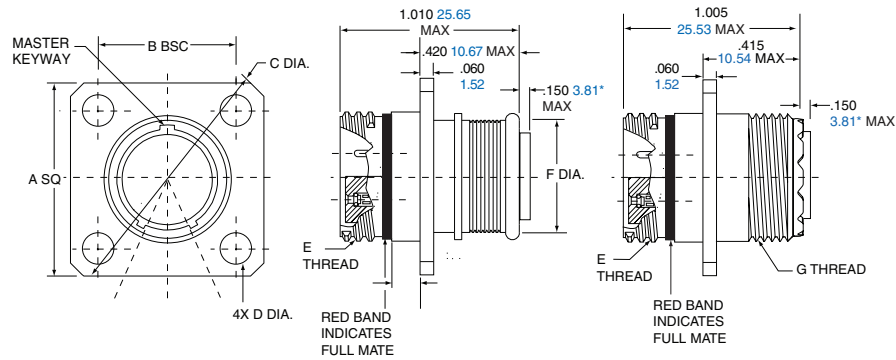


SHELL SIZE	A DIA.		B FLAT		C THREADS	D DIA.		E THREADS ACCESSORY
	IN.	MM.	IN.	MM.		IN.	MM.	
8	.543	13.79	.513	13.03	.5000-.1P-.3L-TS-2A	.317	8.05	.3750-32 UNEF-2A
9	.608	15.44	.578	14.68	.5625-.1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.671	17.04	.641	16.28	.6250-.1P-.3L-TS-2A	.473	12.01	.5000-28 UNEF-2A
11	.733	18.62	.703	17.86	.6875-.1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	.796	20.22	.766	19.46	.7500-.1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	.983	24.97	.953	24.21	.9375-.1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.168	29.67	1.138	28.91	1.1250-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.238	31.45	1.208	30.68	1.1875-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.485	37.72	1.455	39.96	1.4375-.1P-.3L-TS-2A	1.135	28.83	1.1875-18 UNEF-2A

SQUARE FLANGED RECEPTACLE

2M805-003-02

2M805-004-02

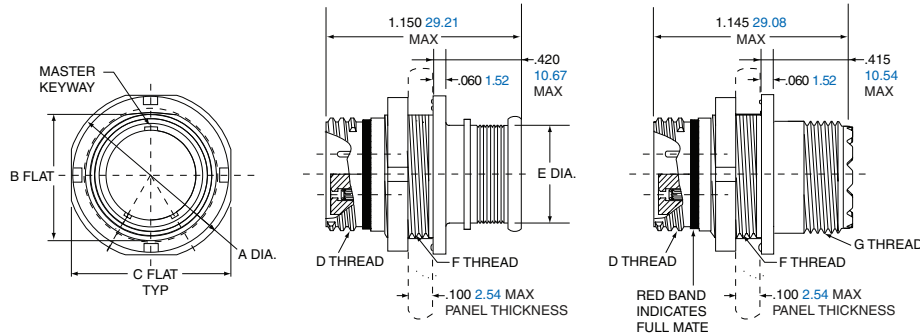


SHELL SIZE	A SQ.		B BSC.		C DIA.		D DIA.		E THREADS	F DIA.		G THREADS ACCESSORY
	IN.	MM.	IN.	MM.	IN.	MM.	IN. ±.003	MM. ±.08		IN.	MM.	
8	.853	21.67	.660	16.76	1.153	29.29	.091	2.31	.5000-.1P-.3L-TS-2A	.317	8.05	.3750-32 UNEF-2A
9	.916	23.27	.723	18.36	1.233	31.32	.091	2.31	.5625-.1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.978	24.84	.785	19.94	1.333	33.86	.091	2.31	.6250-.1P-.3L-TS-2A	.473	12.01	.5000-28 UNEF-2A
11	1.042	26.47	.848	21.54	1.413	35.89	.091	2.31	.6875-.1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	1.102	27.99	.909	23.09	1.503	38.18	.091	2.31	.7500-.1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	1.291	32.79	1.058	26.87	1.753	44.53	.125	3.18	.9375-.1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.478	37.54	1.255	31.88	2.003	50.88	.125	3.18	1.1250-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.540	39.12	1.327	33.71	2.097	53.26	.125	3.18	1.1875-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.790	45.47	1.570	39.88	2.443	62.05	.125	3.18	1.4375-.1P-.3L-TS-2A	1.135	28.83	1.1875-18 UNEF-2A

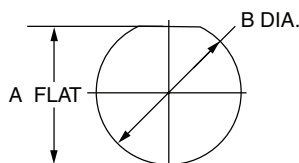
JAM NUT RECEPTACLE

2M805-003-07

2M805-004-07



SHELL SIZE	A DIA.		B FLAT		C FLAT		D THREADS	E DIA.		F THREADS	G ACCESSORY THREADS
	IN.	MM.	IN.	MM.	IN.	MM.		IN.	MM.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.317	8.05	.5625-28 UN-2A	.3750-32 UNEF-2A
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.397	10.08	.6875-28 UN-2A	.4375-28 UNEF-2A
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.473	12.01	.6875-28 UN-2A	.5000-28 UNEF-2A
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.519	13.18	.7500-28 UN-2A	.5625-24 UNEF-2A
12	1.065	27.05	.784	19.91	1.039	26.39	.7500-.1P-.3L-TS-2A	.585	14.86	.8125-28 UN-2A	.6250-24 UNEF-2A
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.687	17.45	1.0000-28 UN-2A	.7500-20 UNEF-2A
18	1.395	35.43	1.150	29.21	1.359	34.52	1.1250-.1P-.3L-TS-2A	.884	22.45	1.1875-28 UN-2A	.9375-20 UNEF-2A
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.884	22.45	1.2500-28 UN-2A	.9375-20 UNEF-2A
23	1.705	43.31	1.470	37.34	1.678	42.62	1.4375-.1P-.3L-TS-2A	1.135	28.83	1.5000-28 UN-2A	1.1875-18 UNEF-2A

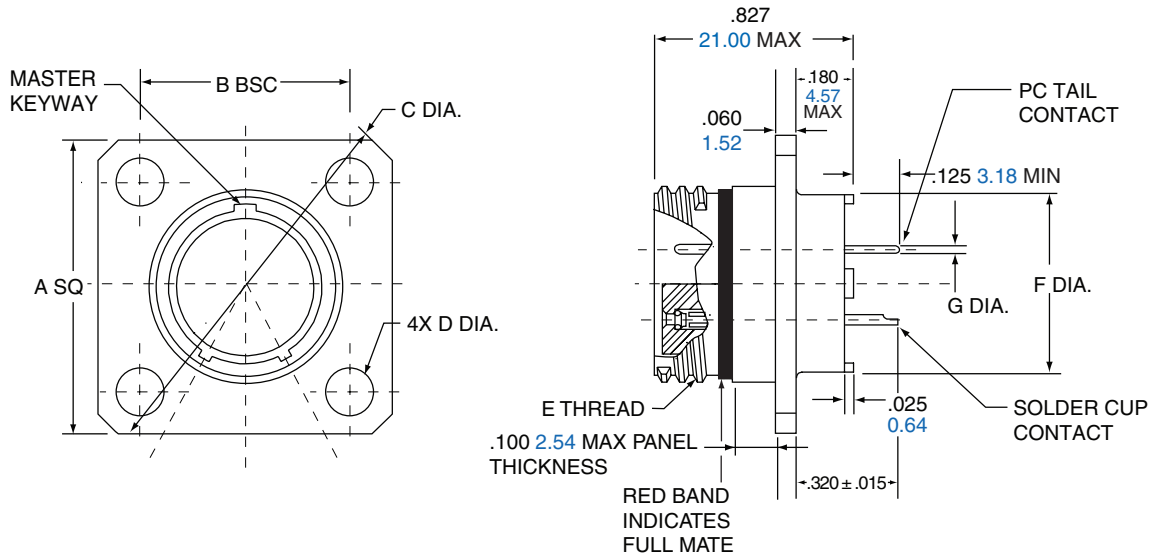


JAM NUT PANEL CUTOUT				
SHELL SIZE	A FLAT		B DIA	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
8	0.543	13.79	0.572	14.53
9	0.669	16.99	0.698	17.73
10	0.669	16.99	0.698	17.73
11	0.729	18.51	0.760	19.30
12	0.792	20.17	0.822	20.88
15	0.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.231	31.27	1.260	32.00
23	1.480	37.59	1.510	38.35

PC SOLDER CUP SQUARE FLANGE

2M805-005-02

2M805-017-02

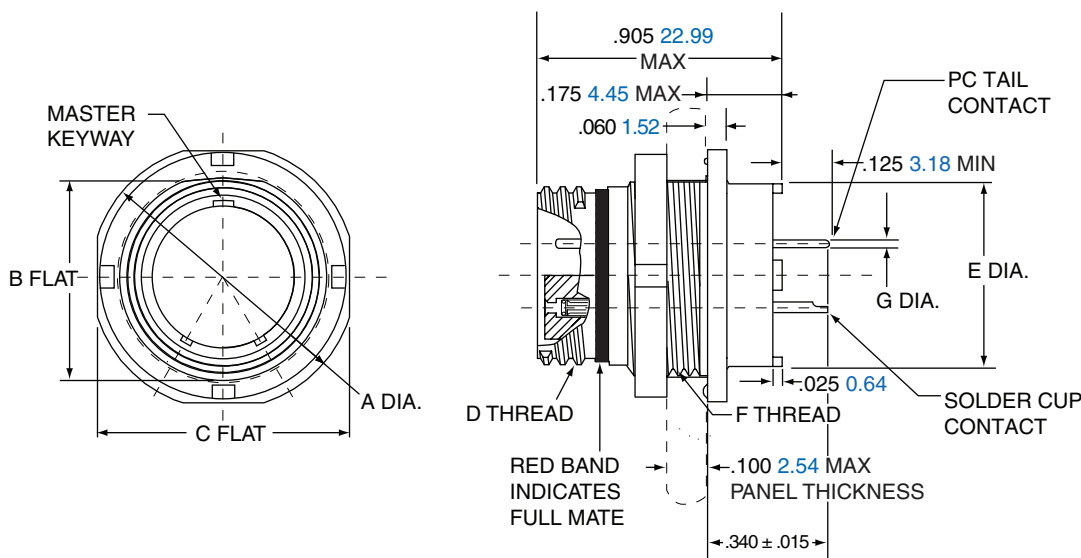


SHELL SIZE	A SQ.		B BSC.		C DIA.		D DIA.		E THREADS	F DIA.		G PC TAIL DIA.
	IN.	MM.	IN.	MM.	IN.	MM.	IN. ±.003	MM. ±.08		IN.	MM.	
8	.853	21.67	.660	16.76	1.153	29.29	.091	2.31	.5000-.1P-.3L-TS-2A	.330	8.38	
9	.916	23.27	.723	18.36	1.233	31.32	.091	2.31	.5625-.1P-.3L-TS-2A	.432	10.97	#23 .018/.022 0.46/0.56
10	.978	24.84	.785	19.94	1.333	33.86	.091	2.31	.6250-.1P-.3L-TS-2A	.493	12.52	
11	1.042	26.47	.848	21.54	1.413	35.89	.091	2.31	.6875-.1P-.3L-TS-2A	.551	14.00	#20/20HD .025/.027 0.64/0.69
12	1.102	27.99	.909	23.09	1.503	38.18	.091	2.31	.7500-.1P-.3L-TS-2A	.620	15.78	
15	1.291	32.79	1.058	26.87	1.753	44.53	.125	3.18	.9375-.1P-.3L-TS-2A	.703	17.86	#16 .060/.064 1.521/1.63
18	1.478	37.54	1.255	31.88	2.003	50.88	.125	3.18	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.540	39.12	1.327	33.71	2.097	53.26	.125	3.18	1.1875-.1P-.3L-TS-2A	.912	23.16	#12 .092/.096 2.34/2.44
23	1.790	45.47	1.570	39.88	2.443	62.05	.125	3.18	1.4375-.1P-.3L-TS-2A	1.162	29.51	

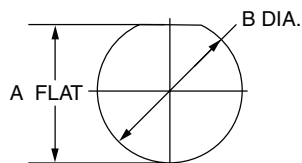
PC TAIL/SOLDER CUP JAM NUT

2M805-005-07

2M805-017-07

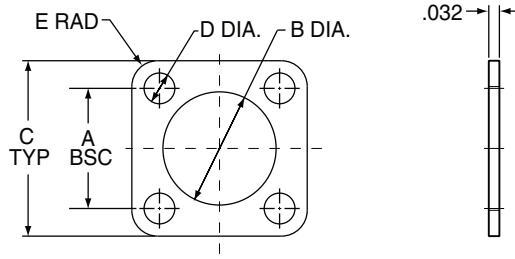


SHELL SIZE	A DIA.		B FLAT		C FLAT		D THREADS	E DIA.		F THREADS	G PC TAIL DIA.
	IN.	MM.	IN.	MM.	IN.	MM.		IN.	MM.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.330	8.38	.5625-28 UN-2A	
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.432	10.97	.6875-28 UN-2A	#23
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.493	12.52	.6875-28 UN-2A	.018/.022 0.46/0.56
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.551	14.00	.7500-28 UN-2A	#20/20HD
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.620	15.78	.8125-28 UN-2A	.025/.027 0.64/0.69
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.703	17.86	1.0000-28 UN-2A	#16
18	1.395	35.43	1.150	29.21	1.359	34.52	1.1250-.1P-.3L-TS-2A	.863	21.92	1.1875-28 UN-2A	.060/.064 1.521/1.63
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.912	23.16	1.2500-28 UN-2A	#12
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.162	29.51	1.5000-28 UN-2A	.092/.096 2.34/2.44



JAM NUT PANEL CUTOUT				
SHELL SIZE	A FLAT		B DIA.	
	IN. ±.002	MM. ± 0.05	IN. ±.005	MM. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.231	31.27	1.260	32.00
23	1.480	37.59	1.510	38.35

SQUARE FLANGED GASKETS



SHELL SIZE	PART NUMBER			A BSC.		B DIA.		C TYP.		D DIA.		E RAD.	
	FLUOROSILICONE	VITON®	CONDUCTIVE	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
8	2M809-108F20	2M809-108V20	2M809-108X20	.660	16.76	.530	13.46	.850	21.46	.093	2.36	.078	1.98
9	2M809-108F21	2M809-108V21	2M809-108X21	.723	18.36	.590	14.99	.913	23.19	.093	2.36	.078	1.98
10	2M809-108F22	2M809-108V22	2M809-108X22	.785	19.94	.660	16.76	.975	24.77	.093	2.36	.078	1.98
11	2M809-108F23	2M809-108V23	2M809-108X23	.848	21.54	.720	18.29	1.039	26.39	.093	2.36	.078	1.98
12	2M809-108F24	2M809-108V24	2M809-108X24	.909	23.09	.780	19.81	1.099	27.91	.093	2.36	.078	1.98
15	2M809-108F25	2M809-108V25	2M809-108X25	1.058	26.87	.970	24.64	1.288	32.72	.125	3.18	.105	2.67
18	2M809-108F26	2M809-108V26	2M809-108X26	1.255	31.88	1.160	29.46	1.475	37.47	.125	3.18	.105	2.67
19	2M809-108F27	2M809-108V27	2M809-108X27	1.327	33.71	1.220	30.99	1.537	39.04	.125	3.18	.105	2.67
23	2M809-108F28	2M809-108V28	2M809-108X28	1.570	39.88	1.458	37.03	1.797	45.64	.125	3.18	.105	2.67

SHRINK BOOTS FOR INTEGRAL ENDBELL

High-Performance Elastomer

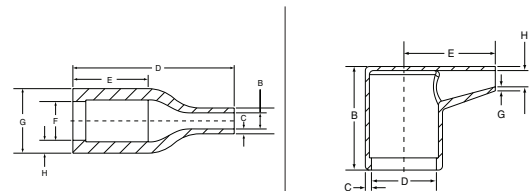
Pre-Coated with High-Temperature Adhesive

- Operating temperature -94 F to +302 F (-70 C to +150 C)
- Rated for 3000 hours of continuous operation at +302 F (+150 C)
- Excellent resistance to fuels, oils, and solvents
- Spec VG95343 Part 6

Zero-Halogen

Low-Smoke, Zero-Halogen Toxicity Requirements

- Meets U.S. and E.U. standards
- Pre-coated with high-temperature adhesive
- Operating temperature -22 F to +257 F (-30 C to +125 C)
- Good resistance to fuels, oils, and solvents
- Spec NAVSEA 5617649



BOOT SIZE	SHELL SIZE	HIGH-PERFORMANCE ELASTOMER		ZERO-HALOGEN		STRAIGHT BOOT CABLE RANGE		MIN.		RIGHT ANGLE BOOT CABLE RANGE		MIN.	
		STRAIGHT	RIGHT ANGLE	STRAIGHT	RIGHT ANGLE	IN.	MM.	IN.	MM.	IN.	MM.	IN.	MM.
2	8, 9	2M809S060-2	2M809A060-2	2M809S060-2H	2M809A060-2H	0.650	16.5	0.150	3.8	0.650	16.5	0.100	2.5
3	10,11	2M809S060-3	2M809A060-3	2M809S060-3H	2M809A060-3H	0.920	23.4	0.220	5.6	0.920	23.3	0.220	5.6
4	12,15	2M809S060-4	2M809A060-4	2M809S060-4H	2M809A060-4H	1.120	28.4	0.260	6.6	1.120	28.5	0.250	6.3
5	18,19	2M809S060-5	2M809A060-5	2M809S060-5H	2M809A060-5H	1.220	31.0	0.280	7.1	1.220	30.9	0.280	7.1
6	23	2M809S060-6	2M809A060-6	2M809S060-6H	2M809A060-6H	1.680	42.7	0.390	9.9	1.680	42.7	0.380	9.7

DUSTCAPS



SHELL SIZE FOR 2M805	METAL DUSTCAPS WITH NYLON ROPE LANYARD		
	FOR PLUGS WITH RING ATTACHMENT	FOR FLANGED RECEPTACLES WITH RING ATTACHMENT	FOR JAM NUT RECEPTACLES WITH LARGE RING ATTACHMENT
8	2M667-261-XX-G0802-4	2M667-262-XX-G0801-4	2M667-262-XX-G0816-4
9	2M667-261-XX-G0902-4	2M667-262-XX-G0901-4	2M667-262-XX-G0918-4
10	2M667-261-XX-G1002-5	2M667-262-XX-G1001-5	2M667-262-XX-G1018-5
11	2M667-261-XX-G1102-5	2M667-262-XX-G1101-5	2M667-262-XX-G1119-5
12	2M667-261-XX-G1202-5	2M667-262-XX-G1201-5	2M667-262-XX-G1219-5
15	2M667-261-XX-G1502-6	2M667-262-XX-G1502-5	2M667-262-XX-G1520-5
18	2M667-261-XX-G1802-6	2M667-262-XX-G1802-5	2M667-262-XX-G1822-5
19	2M667-261-XX-G1902-6	2M667-262-XX-G1902-5	2M667-262-XX-G1923-5
23	2M667-261-XX-G2302-6	2M667-262-XX-G2302-5	2M667-262-XX-G2325-5

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** Aluminum/ Electroless Nickel (RoHS)
- NF** Aluminum/ Cadmium with Olive Drab Chromate
- MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)

- Z1** Stainless Steel/ Passivated
 - ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
 - ZM** Stainless Steel/ Electroless Nickel (RoHS)
 - ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)
- REPLACE XX WITH PLATING CODE**

STRAIN RELIEF CABLE CLAMP WITH ROTATABLE COUPLING

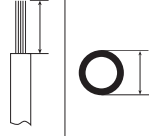
SHELL SIZE	PART NUMBER	THREAD SIZE 2B	CABLE ENTRY DIA.
8	2M620MS065-XX11	.5625-28 UNEF	0.11
9	2M620MS065-XX07	.6875-28 UN	0.17
10	2M620MS065-XX08	.6875-28 UN	0.23
11	2M620MS065-XX09	.7500-28 UN	0.30
12	2M620MS065-XX10	.8125-28 UN	0.30
15	2M620MS065-XX13	1.000-28 UN	0.36
18	2M620MS065-XX14	1.1875-28 UN	0.48
19	2M620MS065-XX15	1.2500-28 UN	0.61
23	2M620MS065-XX17	1.5000-28 UN	0.86

- C** Aluminum/ Black Anodize (Non-Conductive) (RoHS)
 - M** Aluminum/ Electroless Nickel (RoHS)
 - NF** Aluminum/ Cadmium with Olive Drab Chromate
 - MT** Aluminum/ Nickel-PTFE (Duralon) (RoHS)
 - Z1** Stainless Steel/ Passivated
 - ZM** Stainless Steel/ Electroless Nickel (RoHS)
 - ZN** Aluminum/ Zinc-Nickel with Olive Drab Chromate
 - ZNU** Aluminum/ Zinc-Nickel with Black Chromate (RoHS)
- REPLACE XX WITH PLATING CODE**

ADDITIONAL BACKSHELLS

	DESCRIPTION	PART NUMBER PREFIX	STRAIGHT	90°	45°
	Thread-On BAND-IT Adapter	2M440MS135	X		
		2M440ML135		X	
		2M440MK135			X
	Low-Profile BAND-IT Adapter	2M440MS134	X		
	Environmental Backshell	2M370MS038	X		
		2M370MA038		X	
		2M370MB038			X
	EMI Backshell	2M380MS137	X		
		2M380MA137		X	
		2M380MB137			X
	Environmental EMI Backshell	2M390MS077	X		
		2M390MA077		X	
		2M390MB077			X

PINS

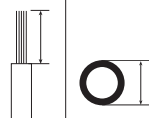


Insert head first



CONTACT SIZE AWG	WIRE SIZE AWG	PIN CONTACT	COLOR BANDS			WIRE STRIP LENGTH	WIRE SEALING RANGE		WIRE HOLE FILLER	HAND-CRIMP TOOL	POSITIONER (LOCATOR)	PLASTIC INSERTION/ EXTRACTION TOOL	METAL INSERTION TOOL	METAL EXTRACTION TOOL
			1	2	3		MIN.	MAX.						
23	22,24,26,& 28	2M809-001	N/A	N/A	N/A	0.15 (3.81)	0.024 (.609)	0.052 (1.32)	2M809-155 (Black)	M22520/2-01	K1461	2M809-088*	DAK225-22	DRK225-22
	26,28, & 30	2M809-042	Blue	N/A	N/A	0.15 (3.81)	0.024 (.609)	0.052 (1.32)			2M809-057			
20HD	20,22, & 24	2M809-204	N/A	N/A	N/A	0.15 (3.81)	0.040 (1.02)	0.083 (2.11)	MS27488-20-2 (Red)	M22520/2-01	2M809-206	2M809-203	N/A	N/A
20	20,22, & 24	M39029/58-363	Orange	Blue	Orange	.188 (4.77)	0.040 (1.02)	0.083 (2.11)	MS27488-20-2 (Red)	M22520/1-01	M22520/1-04	M81969/14-10	11-008674-020	11-008675-020
16	16,18, & 20	M39029/58-364	Orange	Blue	Yellow	.188 (4.77)	0.065 (1.65)	0.109 (2.77)	MS27488-16-2 (Green)	M22520/1-01	M22520/1-04	M81969/14-03	11-008674-016	11-008675-016
12	12 & 14	M39029/58-365	Orange	Blue	Green	.188 (4.77)	0.097 (2.46)	0.142 (.361)	MS27488-12-2 (Orange)	M22520/1-01	M22520/1-04	M81969/14-04	11-008674-012	11-008675-012

SOCKETS



Insert head first



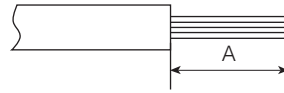
CONTACT SIZE AWG	WIRE SIZE AWG	PIN CONTACT	COLOR BANDS			WIRE STRIP LENGTH	WIRE SEALING RANGE		WIRE HOLE FILLER	HAND-CRIMP TOOL	POSITIONER (LOCATOR)	PLASTIC INSERTION/ EXTRACTION TOOL	METAL INSERTION TOOL	METAL EXTRACTION TOOL
			1	2	3		MIN.	MAX.						
23	22,24,26,& 28	2M809-002	N/A	N/A	N/A	0.15 (3.81)	0.024 (.609)	0.052 (1.32)	2M809-155 (Black)	M22520/2-01	K1461	2M809-088*	DAK225-22	DRK225-22
	26,28, & 30	2M809-043	Blue	N/A	N/A	0.15 (3.81)	0.024 (.609)	0.052 (1.32)			2M809-057			
20HD	20,22, & 24	2M809-205	N/A	N/A	N/A	0.15 (3.81)	0.040 (1.02)	0.083 (2.11)	MS27488-20-2 (Red)	M22520/2-01	2M809-206	2M809-203	N/A	N/A
20	20,22, & 24	M39029/57-357	Orange	Green	Violet	.188 (4.77)	0.040 (1.02)	0.083 (2.11)	MS27488-20-2 (Red)	M22520/1-01	M22520/1-04	M81969/14-10	11-008674-020	11-008675-020
16	16,18, & 20	M39029/57-358	Orange	Green	Gray	.188 (4.77)	0.065 (1.65)	0.109 (2.77)	MS27488-16-2 (Green)	M22520/1-01	M22520/1-04	M81969/14-03	11-008674-016	11-008675-016
12	12 & 14	M39029/57-359	Orange	Green	White	.188 (4.77)	0.097 (2.46)	0.142 (.361)	MS27488-12-2 (Orange)	M22520/1-01	M22520/1-04	M81969/14-04	11-008674-012	11-008675-012

* Metal & insertion only

All dimensions in inches

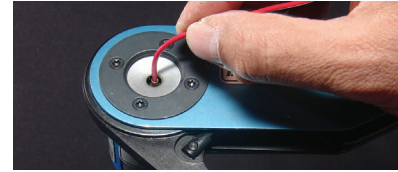
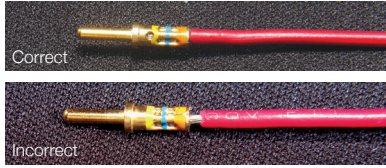
WIRE STRIPPING

Strip insulation from the end of wire to be crimped. (See table for proper stripping dimensions.) Do not cut or damage wire strands.



CONTACT SIZE	A
23, 20HD	.150 (3.18)
20	.188 (4.77)
16	.188 (4.77)
12	.188 (4.77)

CONTACT CRIMPING

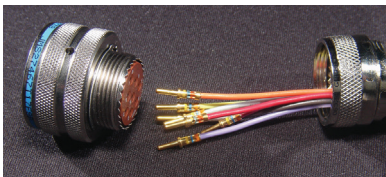


STEP 1: Insert wire into rear of contact. Wire insulation must press against rear of contact. Wire must be visible through inspection hole.

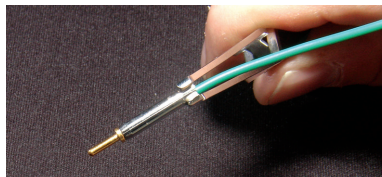
STEP 2: M22520 series crimp tool and locator is recommended. See Contact and Tool Table on [page 368](#) for choice of turret head and selection setting according to contact size, part number and wire gauge size.

STEP 3: Insert contact and wire into tool jaws. To crimp, squeeze handles together fully until ratchet releases and allows handles to expand; otherwise, contact cannot be extracted from tool jaws. Maintain slight insertion pressure on wire while crimping contact to wire.

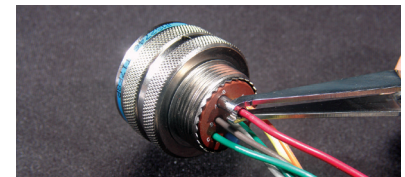
CONTACT INSERTION



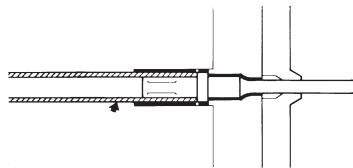
STEP 1: Remove hardware from plug or receptacle and slip over wire bundle in proper order for reassembly.



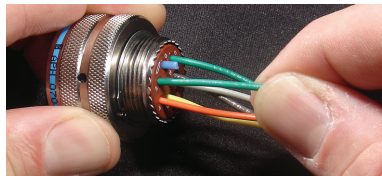
STEP 2: Using proper plastic or metal insertion tool for corresponding contact, position wire in tip of the tool so that the tool tip presses against the contact shoulder.



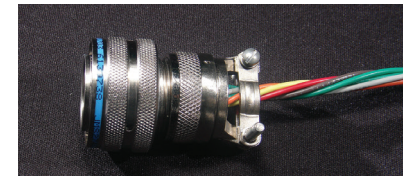
STEP 3: Press tool against contact shoulder and, with firm and even pressure, insert wired contact and tool tip into center contact cavity.



STEP 4: When contact bottoms, a slight "click" can be heard as tines of metal retaining clip snap into place behind contact shoulder.



STEP 5: Remove tool and pull back lightly on wire to make sure contact is properly seated. Repeat operation with remainder of contacts to be inserted, beginning with the center cavity and working outward in alternating rows.

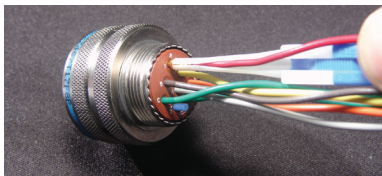


STEP 6: After all contacts are inserted, fill any empty cavities with wire sealing plugs. Reassemble plug or receptacle hardware.

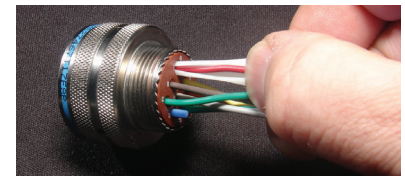
CONTACT EXTRACTION



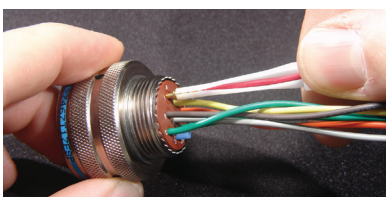
STEP 1: Remove hardware from plug or receptacle and slide hardware back along wire bundle.



STEP 2: Using plastic or metal extraction tool with proper color code corresponding to contact size, place wire in tool.



STEP 3: Insert tool into contact cavity until tool tip bottoms against the contact shoulder, expanding clip retaining tines.



STEP 4: Hold wire firmly in tool and extract wired contact and tool. Repeat operation for all contacts to be extracted.



STEP 5: Fill any empty cavities with wire sealing plugs. Reassemble plug or receptacle hardware.

All dimensions in inches